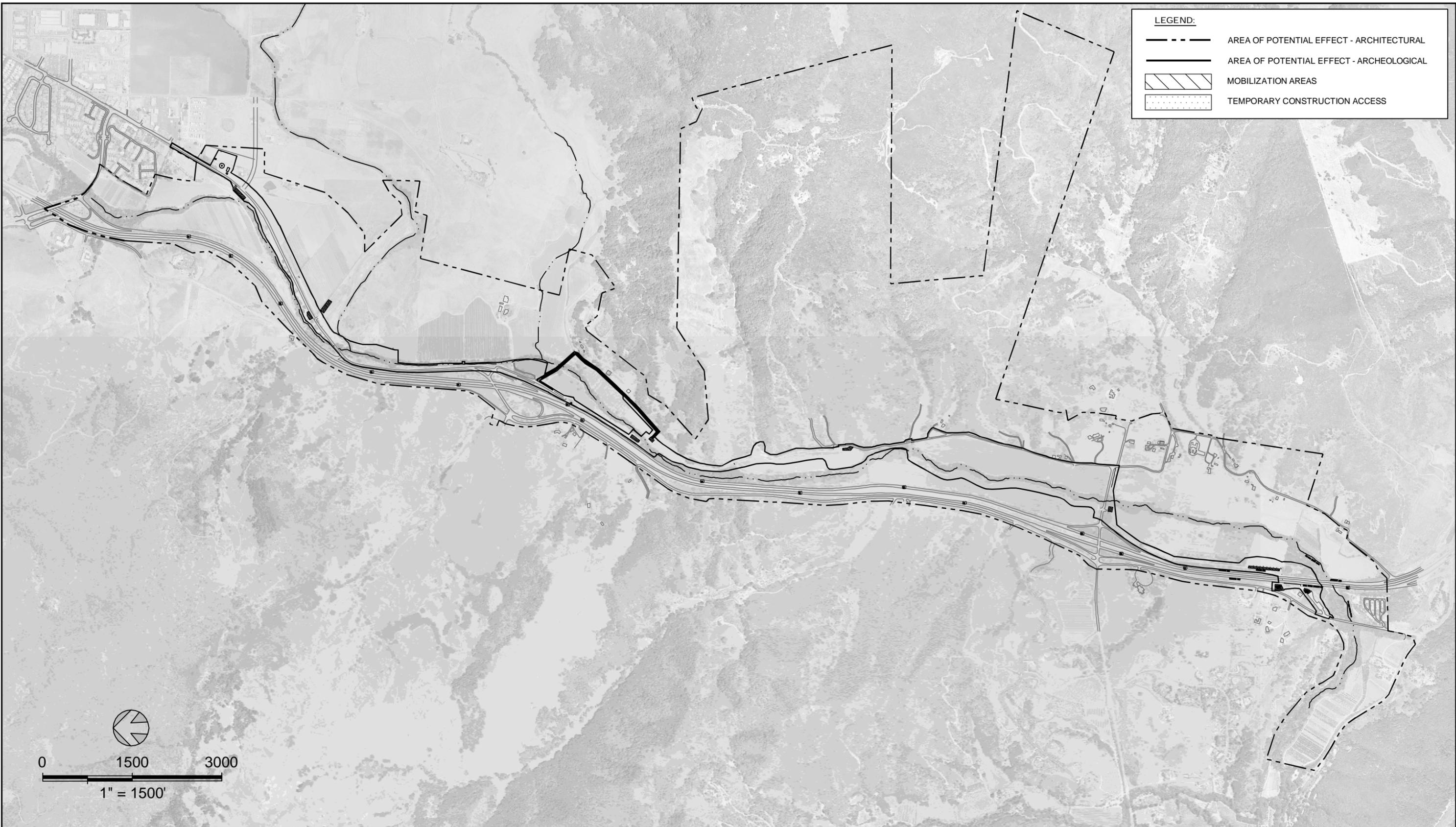
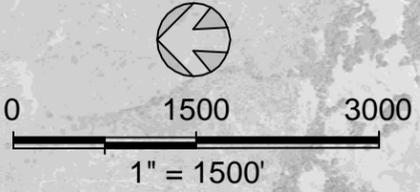


## **APPENDIX A: PROJECT PLANS**



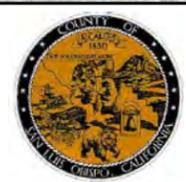
**LEGEND:**

	AREA OF POTENTIAL EFFECT - ARCHITECTURAL
	AREA OF POTENTIAL EFFECT - ARCHEOLOGICAL
	MOBILIZATION AREAS
	TEMPORARY CONSTRUCTION ACCESS



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/05/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questa.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**GENERAL AREA OF POTENTIAL EFFECT**

**SHEET**  
**1 OF 4**

# AREA OF POTENTIAL EFFECTS MAPS

COUNTY OF SAN LUIS OBISPO, CA

REVISED JANUARY 05, 2012

Principal Investigator - Prehistoric Archaeology

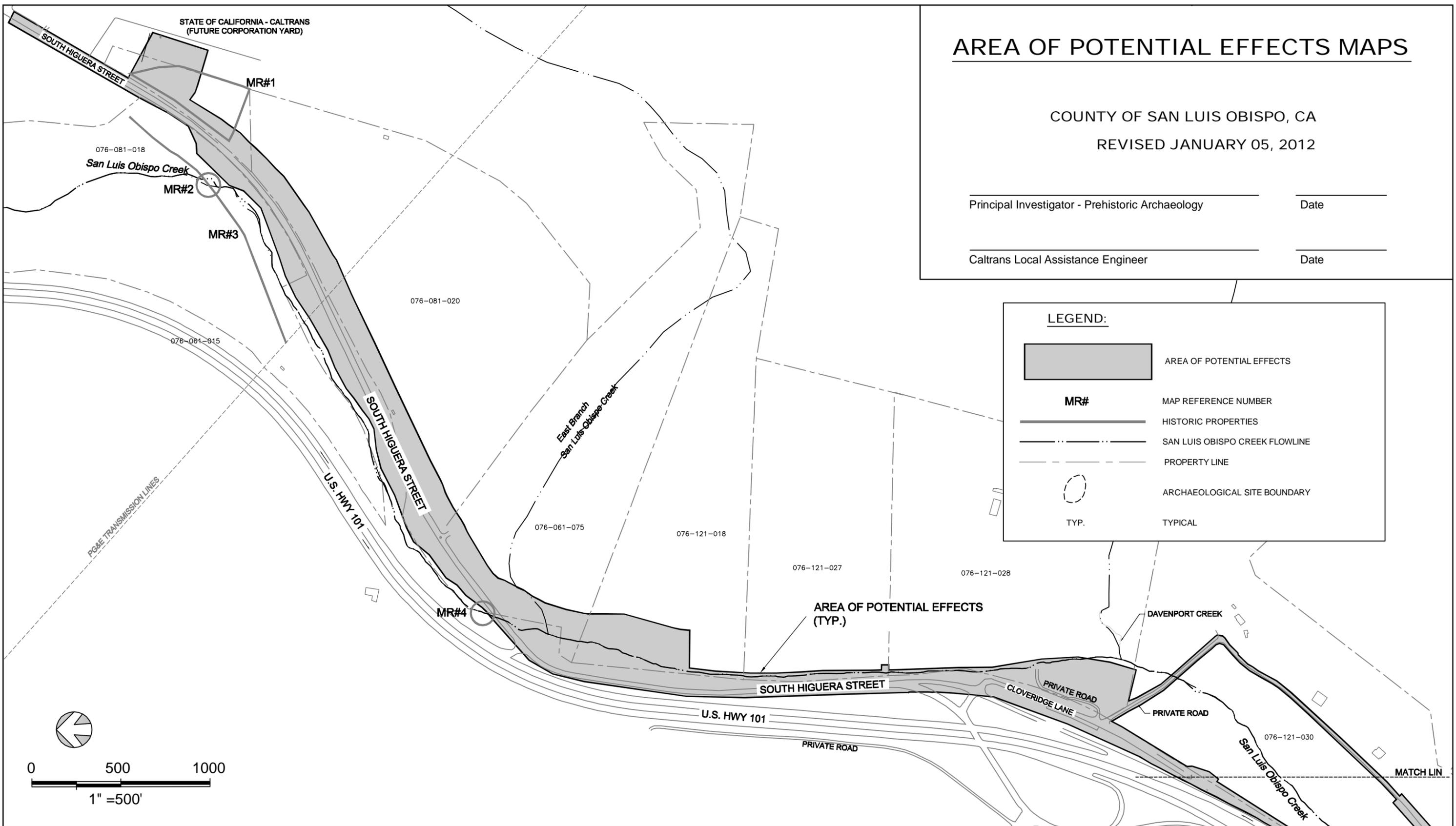
Date

Caltrans Local Assistance Engineer

Date

**LEGEND:**

-  AREA OF POTENTIAL EFFECTS
- MR#** MAP REFERENCE NUMBER
-  HISTORIC PROPERTIES
-  SAN LUIS OBISPO CREEK FLOWLINE
-  PROPERTY LINE
-  ARCHAEOLOGICAL SITE BOUNDARY
-  TYP. TYPICAL



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP
APPR'D	JP
DATE	01/05/2012
PROJECT NUMBER	250083

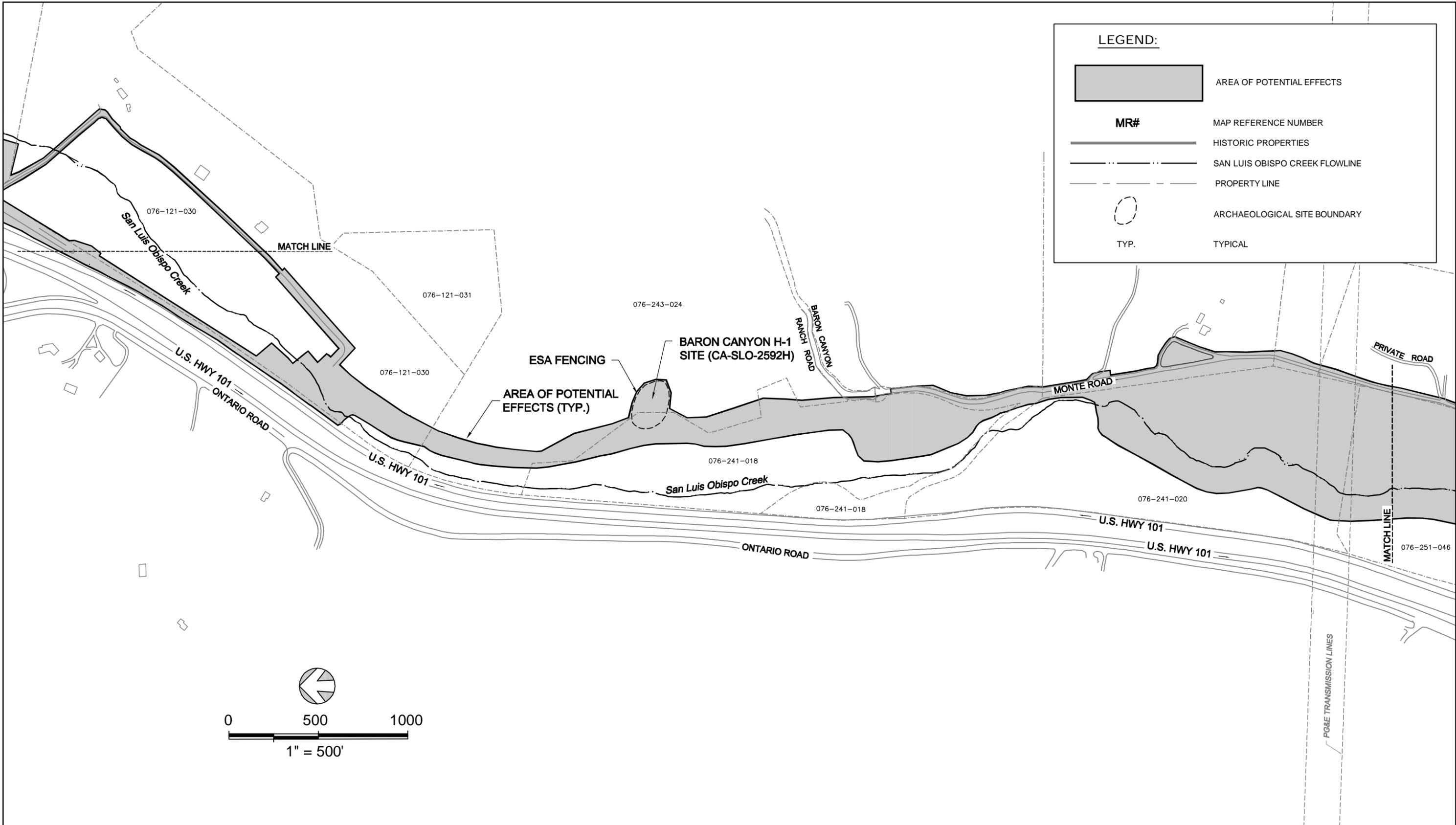
**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
(510) 236-2423  
questa@questaec.com

**AREA OF POTENTIAL EFFECTS**  
BOB JONES TRAIL  
SAN LUIS OBISPO, CALIFORNIA

**SHEET**  
2 OF 4

**LEGEND:**

-  AREA OF POTENTIAL EFFECTS
- MR#** MAP REFERENCE NUMBER
-  HISTORIC PROPERTIES
-  SAN LUIS OBISPO CREEK FLOWLINE
-  PROPERTY LINE
-  ARCHAEOLOGICAL SITE BOUNDARY
- TYP.** TYPICAL



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>

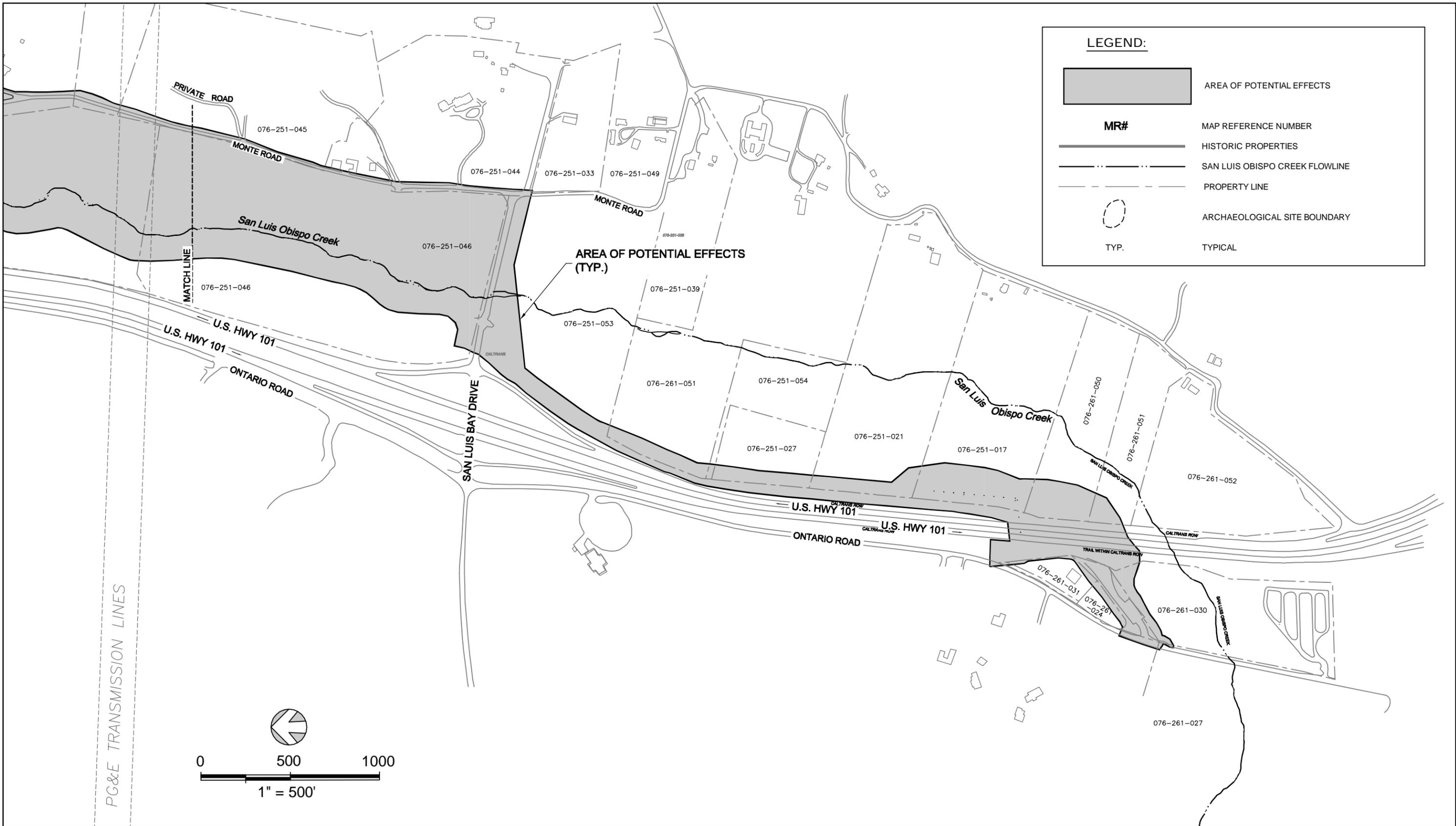


DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP
APPR'D	JP
DATE	01/05/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

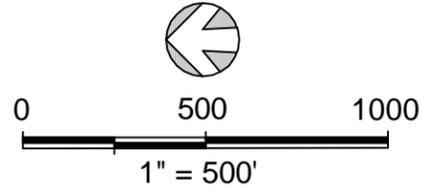
**AREA OF POTENTIAL EFFECTS**  
BOB JONES TRAIL  
SAN LUIS OBISPO, CALIFORNIA

**SHEET**  
**3 OF 4**



**LEGEND:**

-  AREA OF POTENTIAL EFFECTS
- MR#** MAP REFERENCE NUMBER
-  HISTORIC PROPERTIES
-  SAN LUIS OBISPO CREEK FLOWLINE
-  PROPERTY LINE
-  ARCHAEOLOGICAL SITE BOUNDARY
- TYP.** TYPICAL



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>

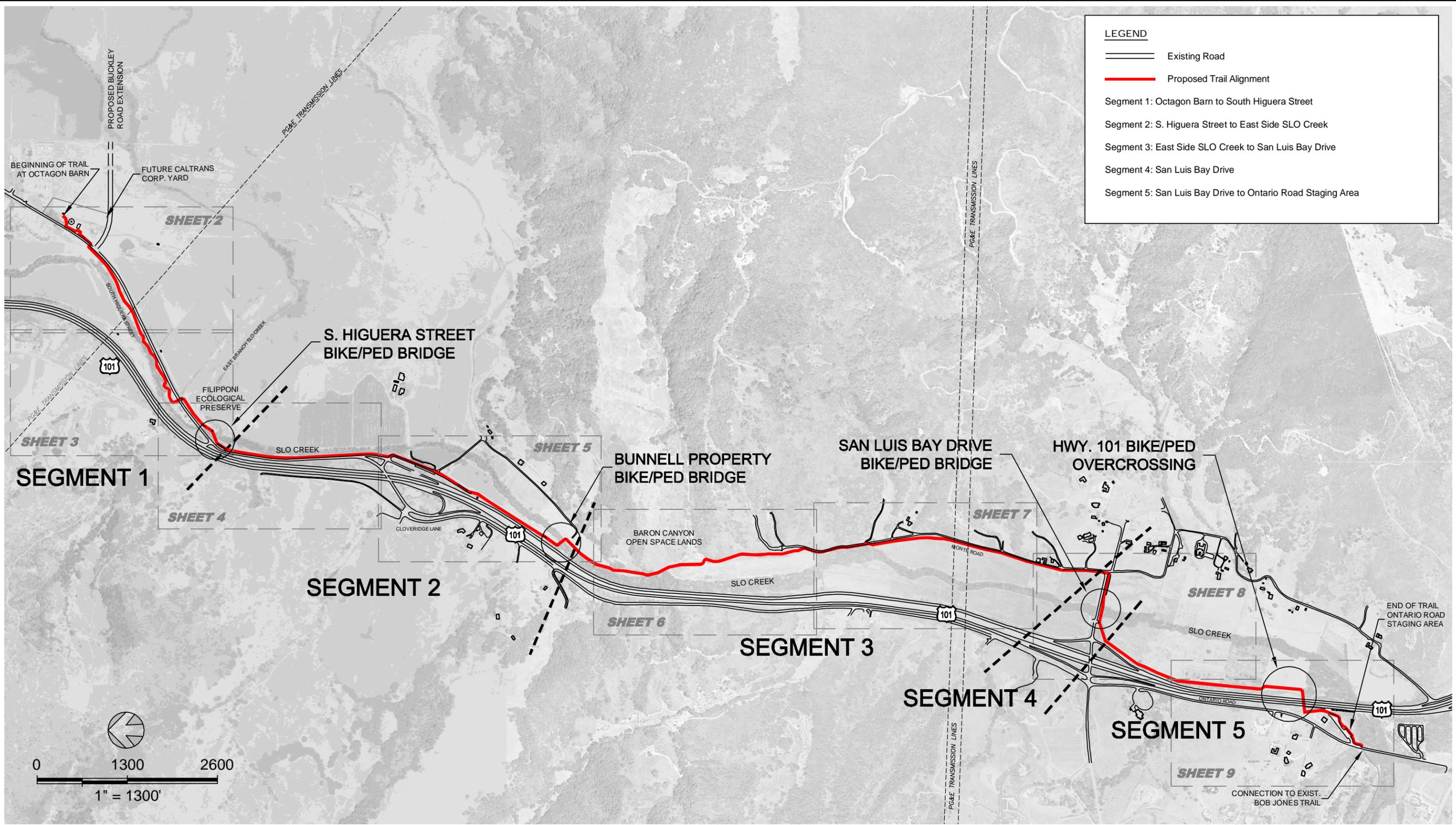


DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP
APPR'D	JP
DATE	01/05/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

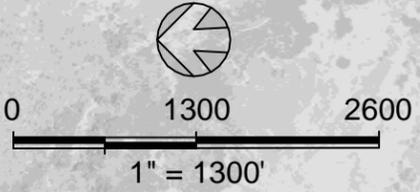
**AREA OF POTENTIAL EFFECTS**  
BOB JONES TRAIL  
SAN LUIS OBISPO, CALIFORNIA

**SHEET**  
**4 OF 4**



**LEGEND**

- Existing Road
- Proposed Trail Alignment
- Segment 1: Octagon Barn to South Higuera Street
- Segment 2: S. Higuera Street to East Side SLO Creek
- Segment 3: East Side SLO Creek to San Luis Bay Drive
- Segment 4: San Luis Bay Drive
- Segment 5: San Luis Bay Drive to Ontario Road Staging Area



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>

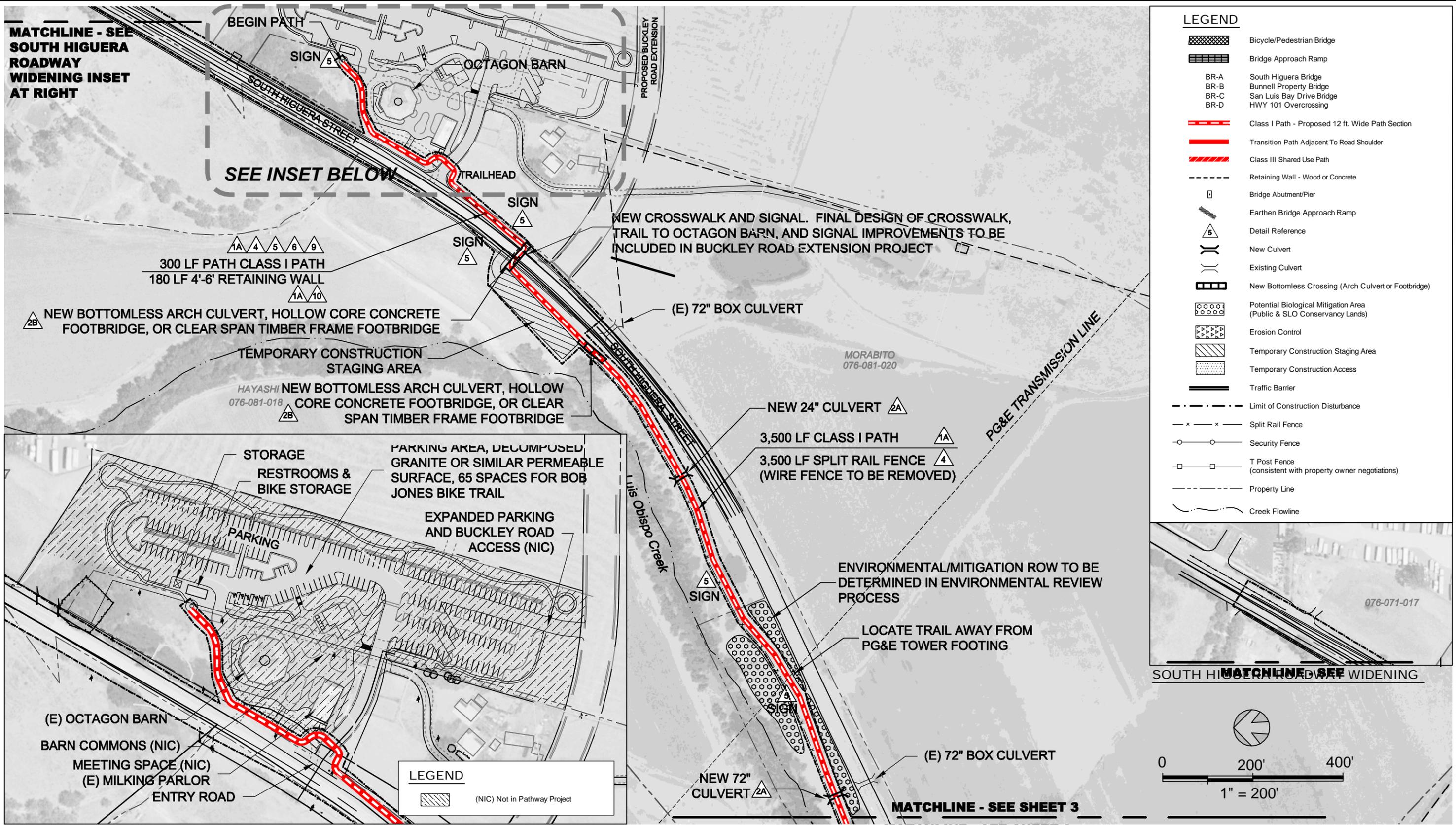


DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

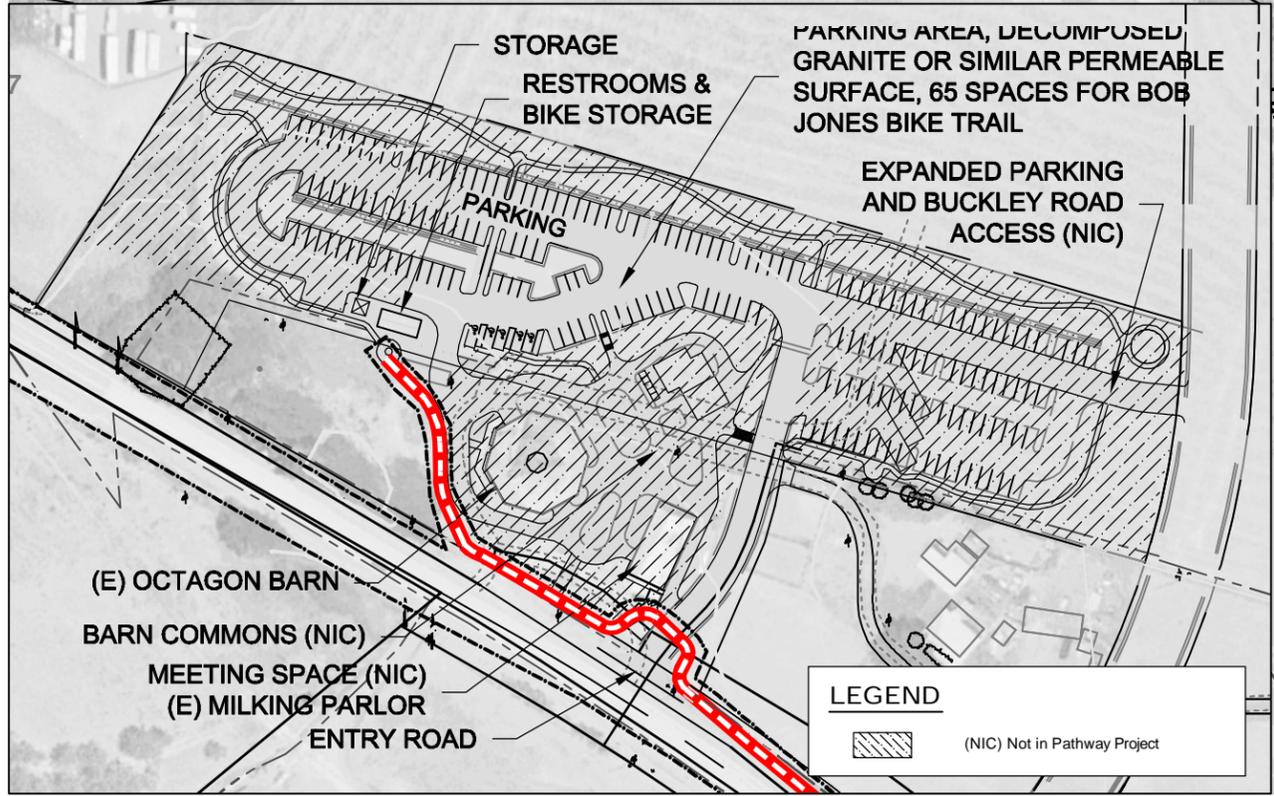
**PRELIMINARY PLAN**

**SHEET**  
1 of 9



**LEGEND**

- Bicycle/Pedestrian Bridge
- Bridge Approach Ramp
- BR-A South Higuera Bridge
- BR-B Bunnell Property Bridge
- BR-C San Luis Bay Drive Bridge
- BR-D HWY 101 Overcrossing
- Class I Path - Proposed 12 ft. Wide Path Section
- Transition Path Adjacent To Road Shoulder
- Class III Shared Use Path
- Retaining Wall - Wood or Concrete
- Bridge Abutment/Pier
- Earthen Bridge Approach Ramp
- Detail Reference
- New Culvert
- Existing Culvert
- New Bottomless Crossing (Arch Culvert or Footbridge)
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Erosion Control
- Temporary Construction Staging Area
- Temporary Construction Access
- Traffic Barrier
- Limit of Construction Disturbance
- Split Rail Fence
- Security Fence
- T Post Fence (consistent with property owner negotiations)
- Property Line
- Creek Flowline



**LEGEND**

- (NIC) Not in Pathway Project



0 200' 400'

1" = 200'

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.®



DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

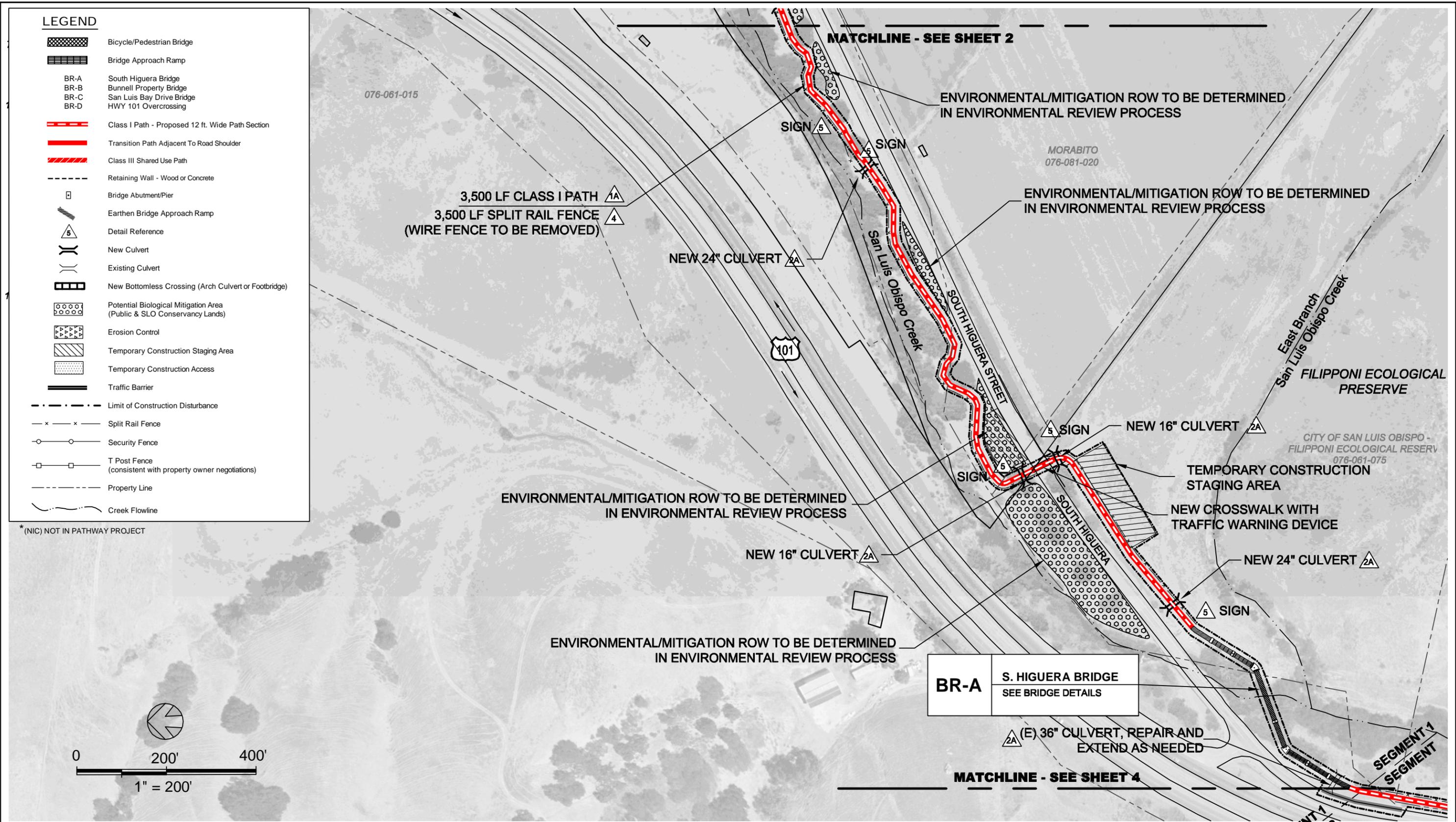
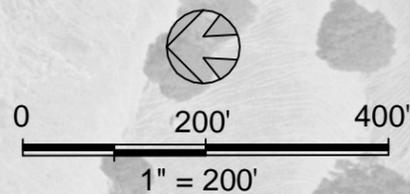
**PRELIMINARY PLAN**

SHEET  
2 OF 9

**LEGEND**

-  Bicycle/Pedestrian Bridge
-  Bridge Approach Ramp
- BR-A South Higuera Bridge
- BR-B Bunnell Property Bridge
- BR-C San Luis Bay Drive Bridge
- BR-D HWY 101 Overcrossing
-  Class I Path - Proposed 12 ft. Wide Path Section
-  Transition Path Adjacent To Road Shoulder
-  Class III Shared Use Path
-  Retaining Wall - Wood or Concrete
-  Bridge Abutment/Pier
-  Earthen Bridge Approach Ramp
-  Detail Reference
-  New Culvert
-  Existing Culvert
-  New Bottomless Crossing (Arch Culvert or Footbridge)
-  Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
-  Erosion Control
-  Temporary Construction Staging Area
-  Temporary Construction Access
-  Traffic Barrier
-  Limit of Construction Disturbance
-  Split Rail Fence
-  Security Fence
-  T Post Fence (consistent with property owner negotiations)
-  Property Line
-  Creek Flowline

\* (NIC) NOT IN PATHWAY PROJECT



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

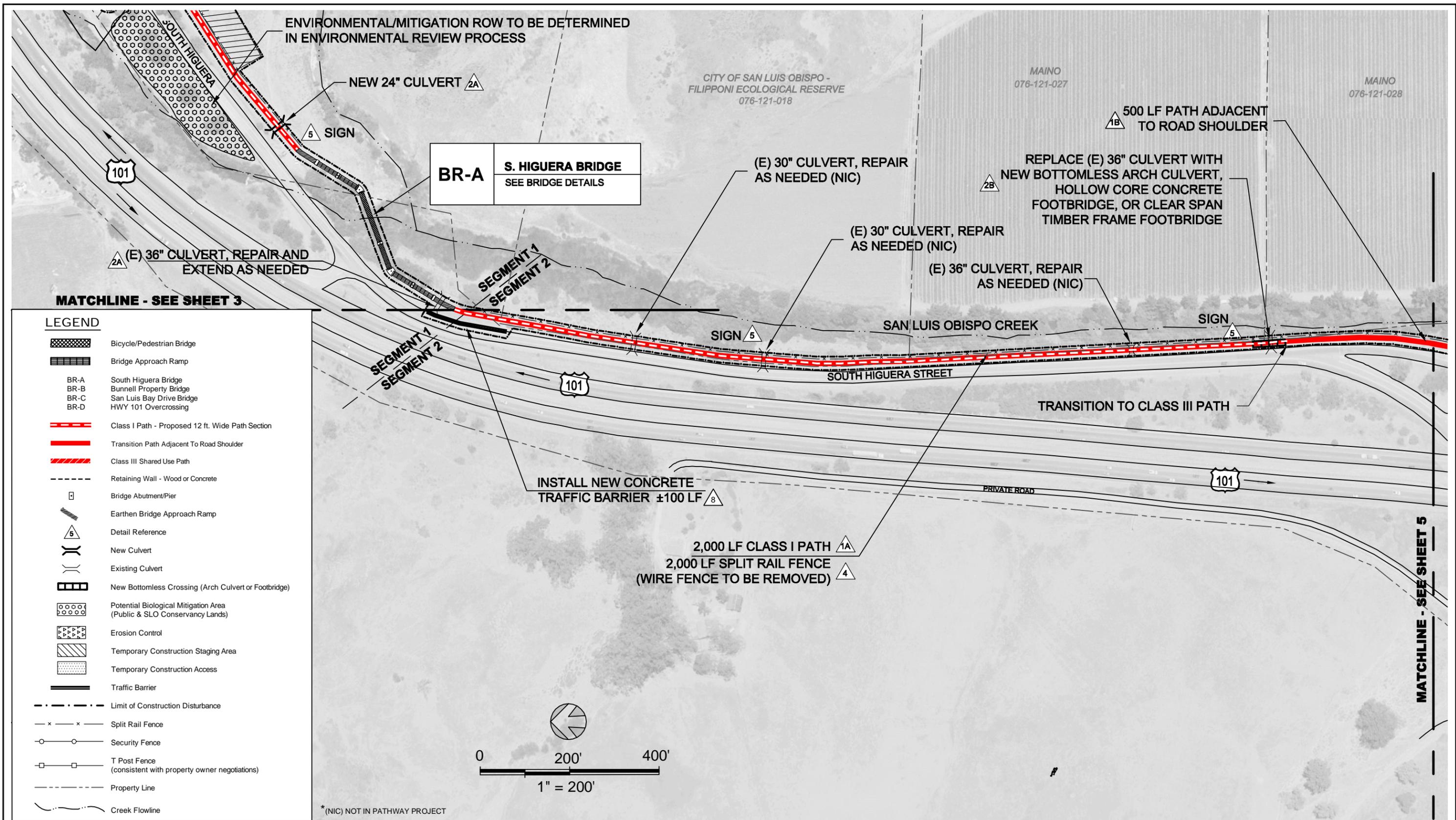


DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPR'D	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

**PRELIMINARY PLAN**

**SHEET**  
**3 OF 9**



**BOB JONES PATHWAY  
SAN LUIS OBISPO TO ONTARIO ROAD**



Sound Science. Creative Solutions.®



DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources

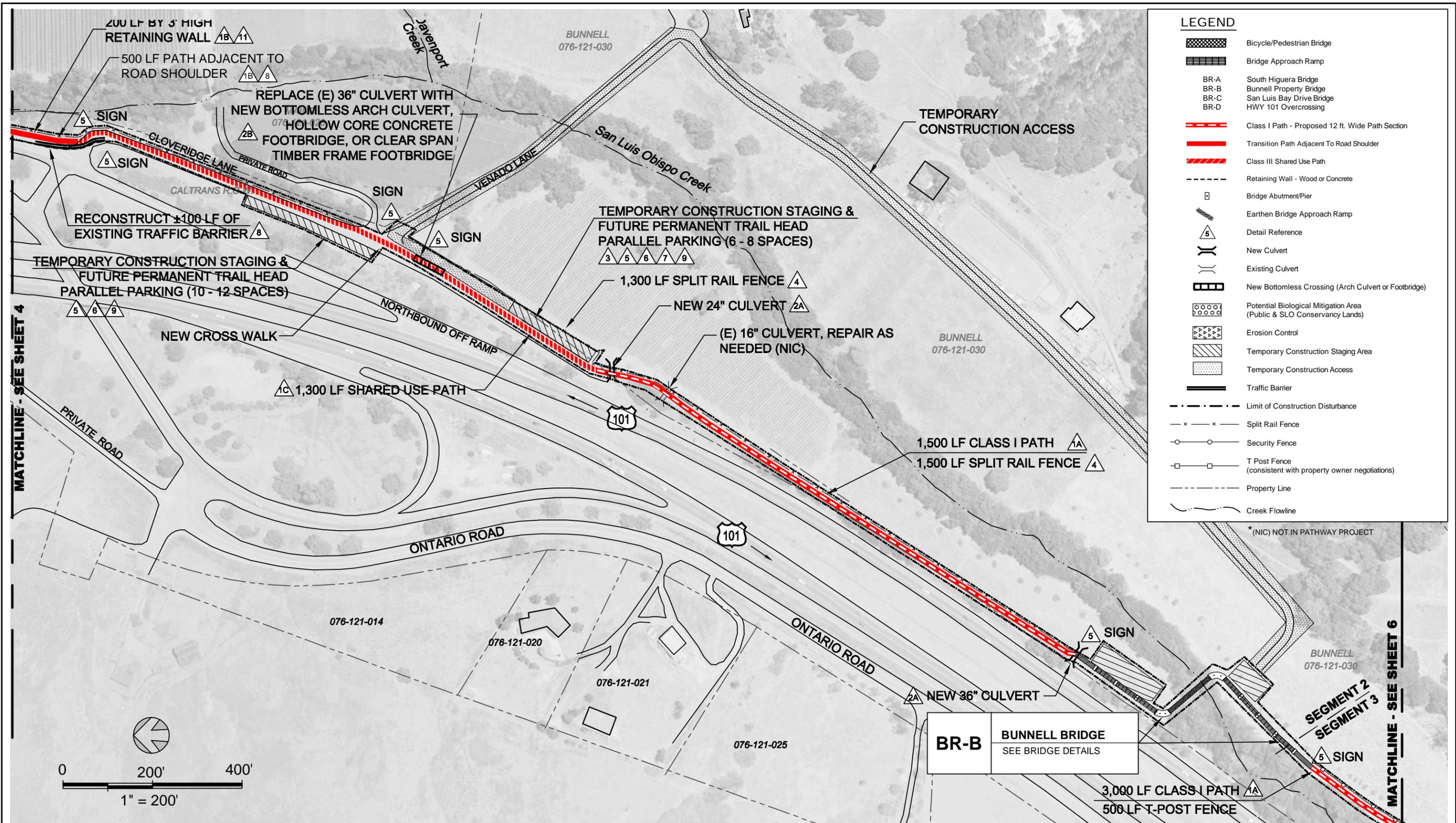
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**PRELIMINARY PLAN**

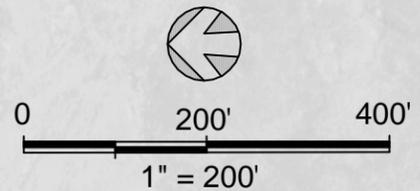
**SHEET**

**4 OF 9**



**LEGEND**

- Bicycle/Pedestrian Bridge
- Bridge Approach Ramp
- BR-A South Higuera Bridge
- BR-B Bunnell Property Bridge
- BR-C San Luis Bay Drive Bridge
- BR-D HWY 101 Overcrossing
- Class I Path - Proposed 12 ft. Wide Path Section
- Transition Path Adjacent To Road Shoulder
- Class III Shared Use Path
- Retaining Wall - Wood or Concrete
- Bridge Abutment/Pier
- Earthen Bridge Approach Ramp
- Detail Reference
- New Culvert
- Existing Culvert
- New Bottomless Crossing (Arch Culvert or Footbridge)
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Erosion Control
- Temporary Construction Staging Area
- Temporary Construction Access
- Traffic Barrier
- Limit of Construction Disturbance
- Split Rail Fence
- Security Fence
- T Post Fence (consistent with property owner negotiations)
- Property Line
- Creek Flowline



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.®

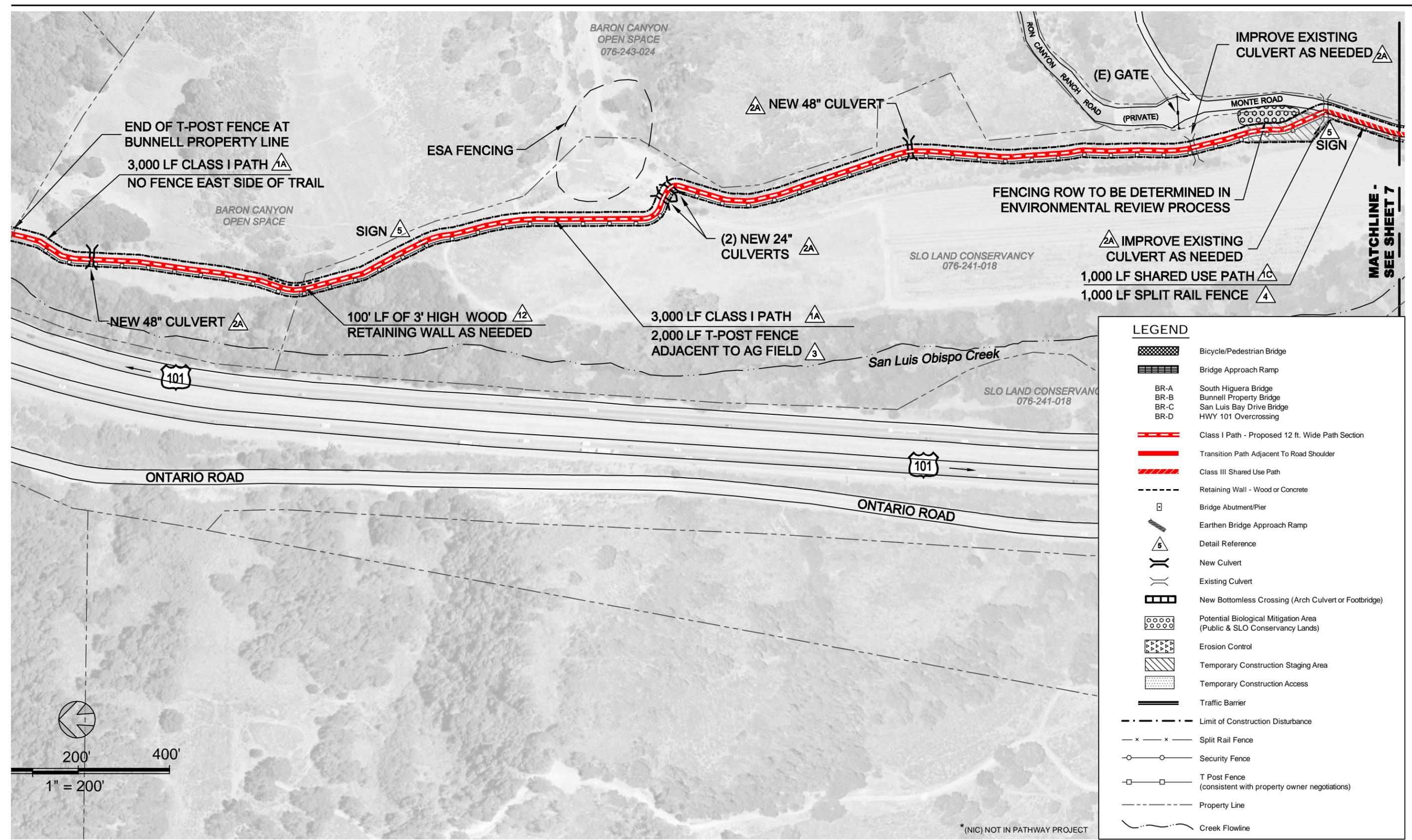


DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**PRELIMINARY PLAN**

**SHEET**  
5 OF 9



**LEGEND**

	Bicycle/Pedestrian Bridge
	Bridge Approach Ramp
BR-A	South Higuera Bridge
BR-B	Bunnell Property Bridge
BR-C	San Luis Bay Drive Bridge
BR-D	HWY 101 Overcrossing
	Class I Path - Proposed 12 ft. Wide Path Section
	Transition Path Adjacent To Road Shoulder
	Class III Shared Use Path
	Retaining Wall - Wood or Concrete
	Bridge Abutment/Pier
	Earthen Bridge Approach Ramp
	Detail Reference
	New Culvert
	Existing Culvert
	New Bottomless Crossing (Arch Culvert or Footbridge)
	Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
	Erosion Control
	Temporary Construction Staging Area
	Temporary Construction Access
	Traffic Barrier
	Limit of Construction Disturbance
	Split Rail Fence
	Security Fence
	T Post Fence (consistent with property owner negotiations)
	Property Line
	Creek Flowline

**BOB JONES PATHWAY**  
 SAN LUIS OBISPO TO ONTARIO ROAD

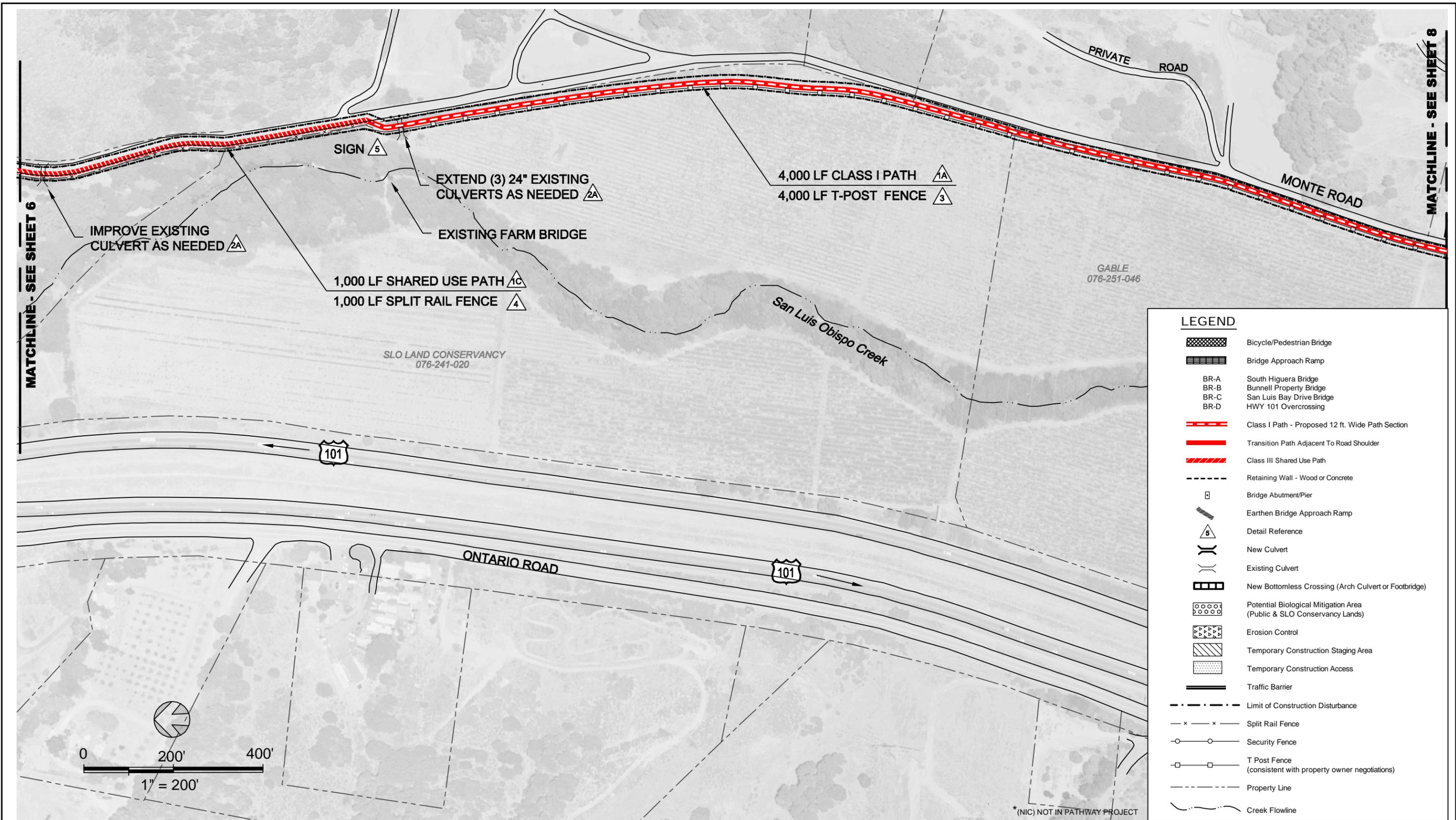


DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
 ENGINEERING CORP.  
 Civil Environmental & Water Resources  
 (510) 236-6114  
 FAX (510) 236-2423  
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**PRELIMINARY PLAN**

**SHEET**  
 6 OF 9



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	MH
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources

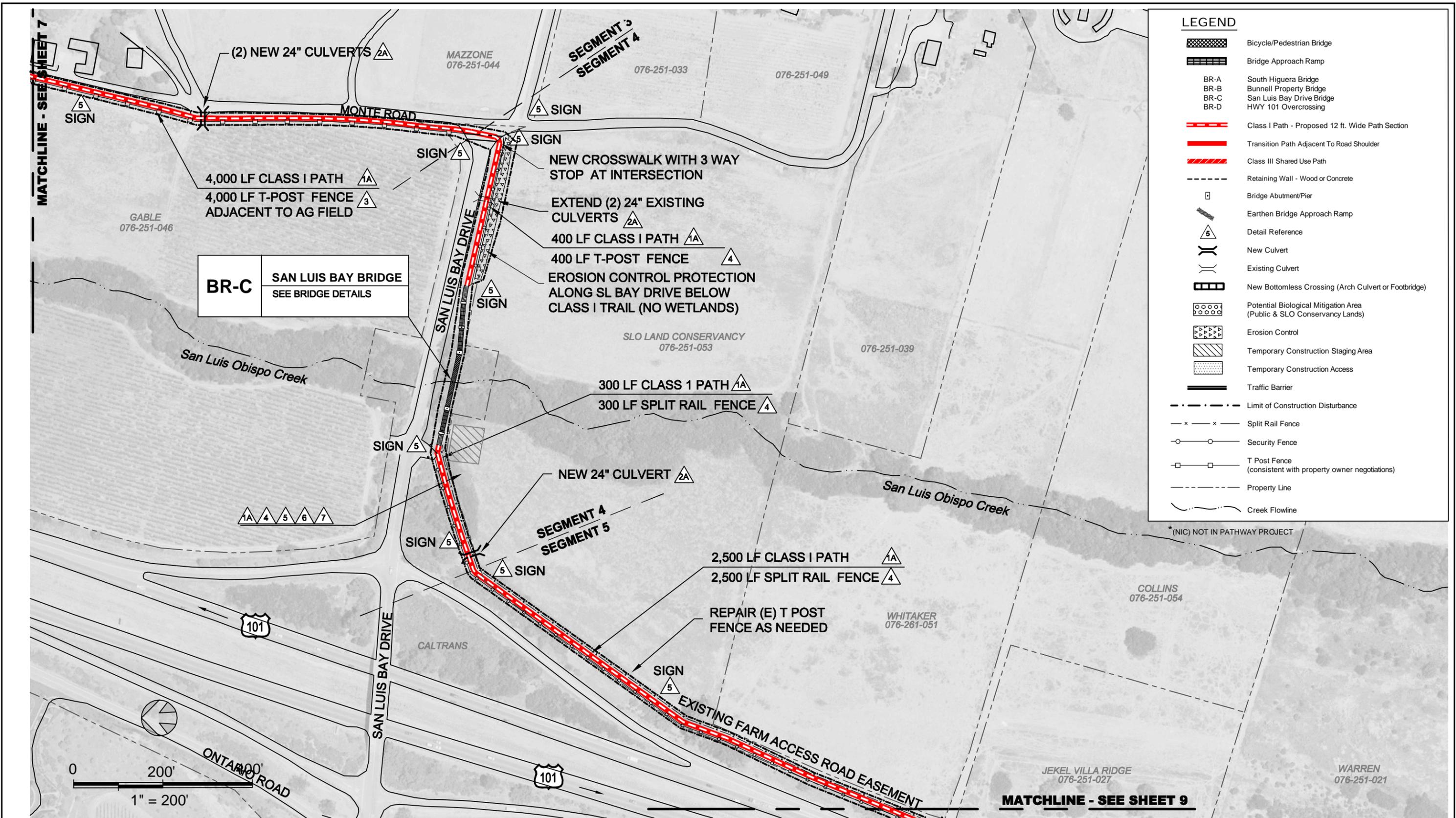
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**PRELIMINARY PLAN**

**SHEET**

**7 OF 9**



**LEGEND**

- Bicycle/Pedestrian Bridge
- Bridge Approach Ramp
- BR-A South Higuera Bridge
- BR-B Bunnell Property Bridge
- BR-C San Luis Bay Drive Bridge
- BR-D HWY 101 Overcrossing
- Class I Path - Proposed 12 ft. Wide Path Section
- Transition Path Adjacent To Road Shoulder
- Class III Shared Use Path
- Retaining Wall - Wood or Concrete
- Bridge Abutment/Pier
- Earthen Bridge Approach Ramp
- Detail Reference
- New Culvert
- Existing Culvert
- New Bottomless Crossing (Arch Culvert or Footbridge)
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Erosion Control
- Temporary Construction Staging Area
- Temporary Construction Access
- Traffic Barrier
- Limit of Construction Disturbance
- Split Rail Fence
- Security Fence
- T Post Fence (consistent with property owner negotiations)
- Property Line
- Creek Flowline

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

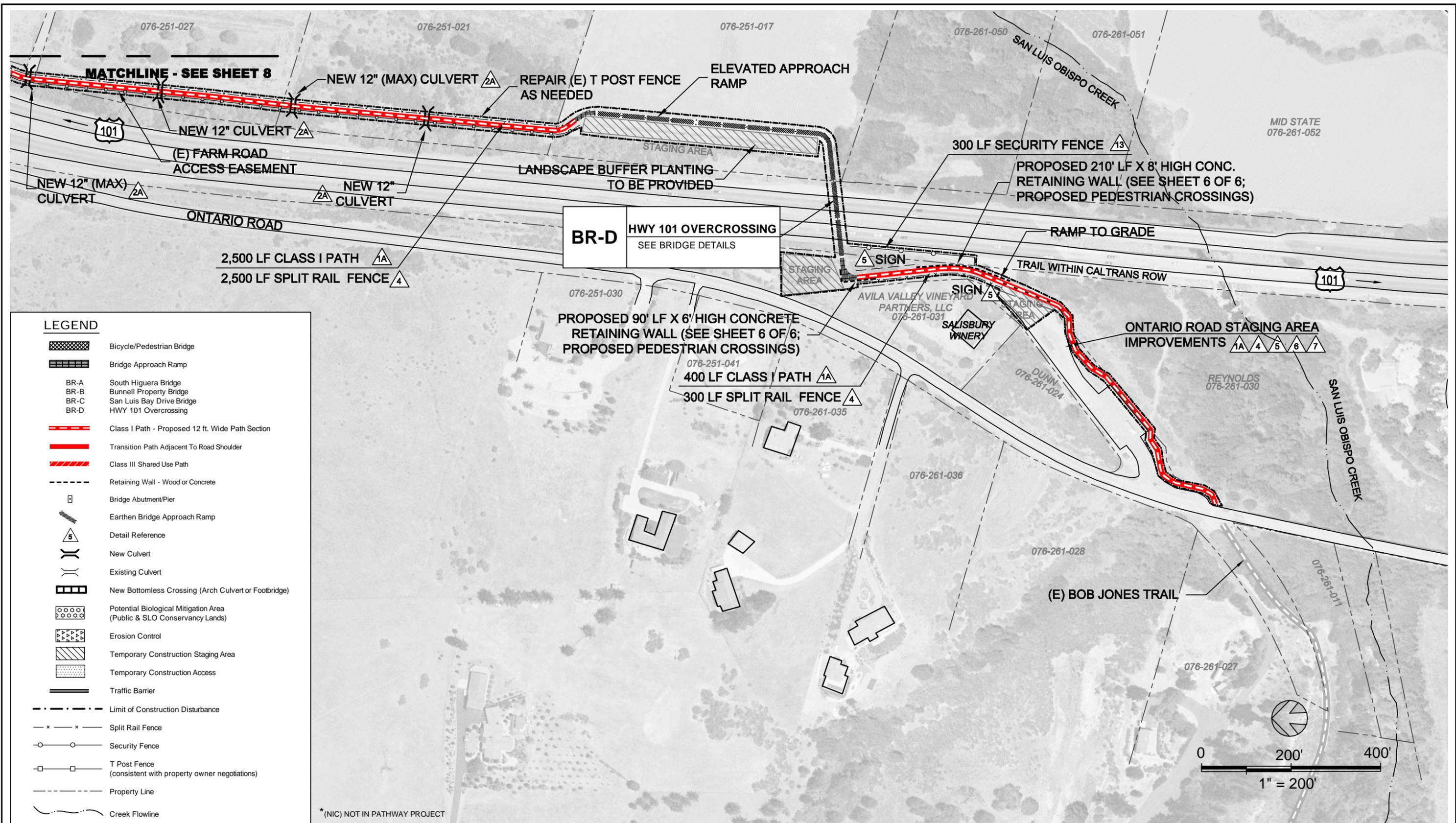


DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPR'D	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

**PRELIMINARY PLAN**

**SHEET**  
8 OF 9

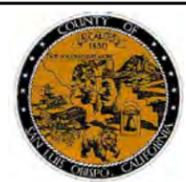


**LEGEND**

	Bicycle/Pedestrian Bridge
	Bridge Approach Ramp
BR-A	South Higuera Bridge
BR-B	Bunnell Property Bridge
BR-C	San Luis Bay Drive Bridge
BR-D	HWY 101 Overcrossing
	Class I Path - Proposed 12 ft. Wide Path Section
	Transition Path Adjacent To Road Shoulder
	Class III Shared Use Path
	Retaining Wall - Wood or Concrete
	Bridge Abutment/Pier
	Earthen Bridge Approach Ramp
	Detail Reference
	New Culvert
	Existing Culvert
	New Bottomless Crossing (Arch Culvert or Footbridge)
	Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
	Erosion Control
	Temporary Construction Staging Area
	Temporary Construction Access
	Traffic Barrier
	Limit of Construction Disturbance
	Split Rail Fence
	Security Fence
	T Post Fence (consistent with property owner negotiations)
	Property Line
	Creek Flowline

\* (NIC) NOT IN PATHWAY PROJECT

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

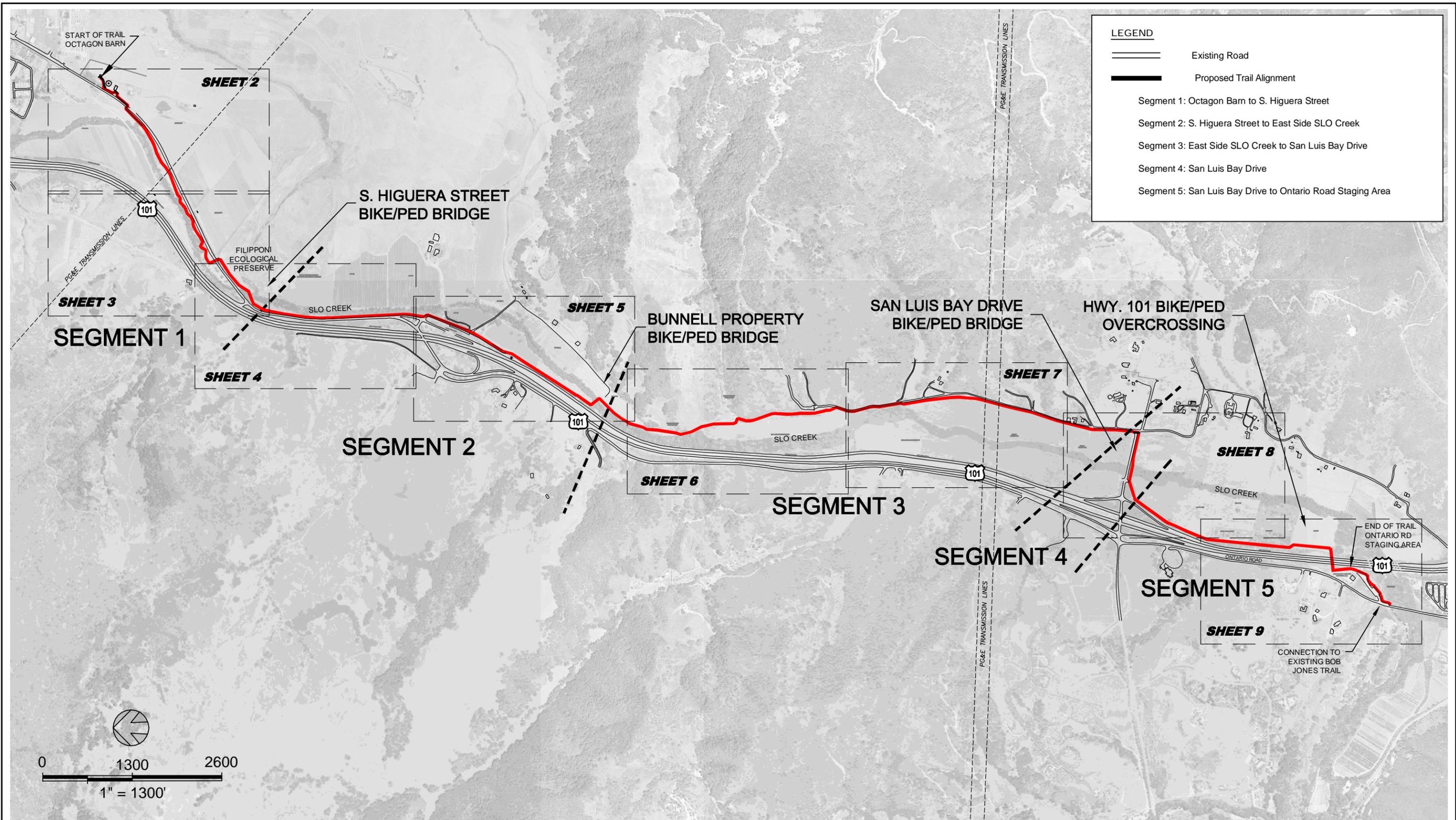


DESIGN	MH/JM
DRAWN	BJV/JAP
CHECKED	JP/JM
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com

**PRELIMINARY PLAN**

**SHEET**  
**9 OF 9**



**LEGEND**

Existing Road

Proposed Trail Alignment

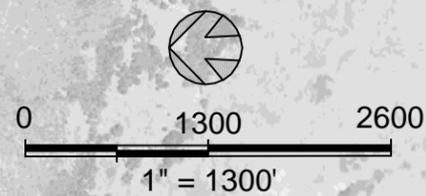
Segment 1: Octagon Barn to S. Higuera Street

Segment 2: S. Higuera Street to East Side SLO Creek

Segment 3: East Side SLO Creek to San Luis Bay Drive

Segment 4: San Luis Bay Drive

Segment 5: San Luis Bay Drive to Ontario Road Staging Area



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



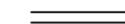
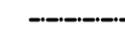
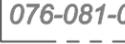
DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

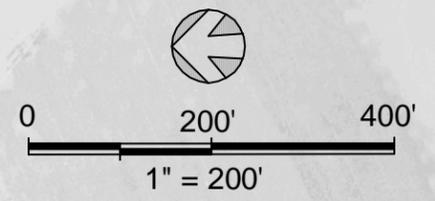
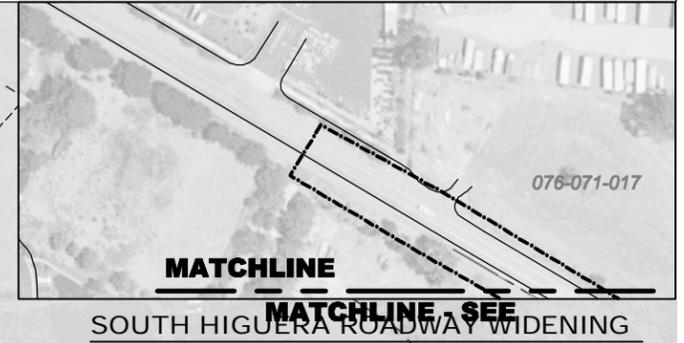
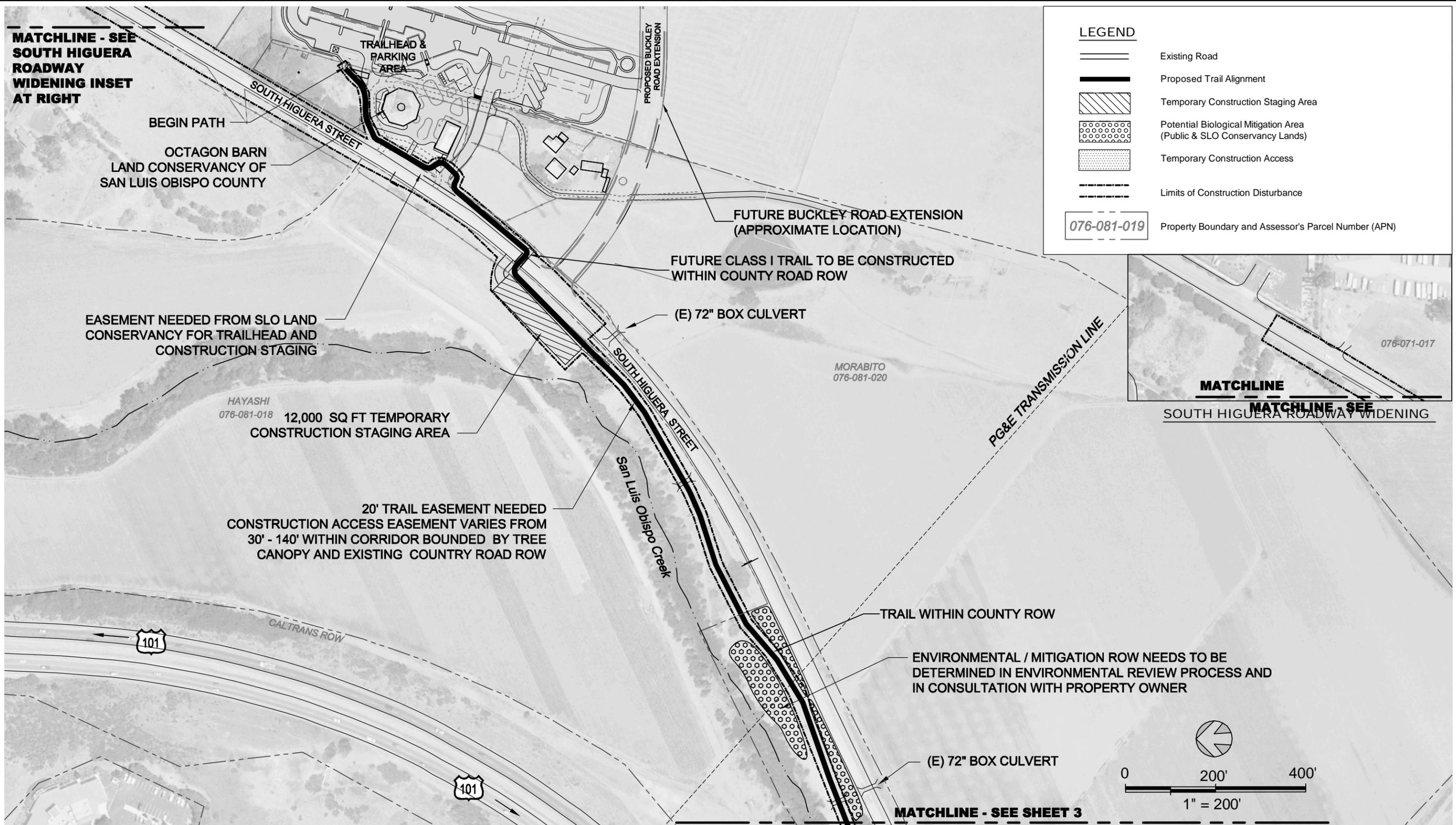
**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaac.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

<b>TRAIL RIGHT OF WAY</b>	
<b>SHEET</b>	<b>1 OF 9</b>

**MATCHLINE - SEE SOUTH HIGUERA ROADWAY WIDENING INSET AT RIGHT**

**LEGEND**

-  Existing Road
-  Proposed Trail Alignment
-  Temporary Construction Staging Area
-  Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
-  Temporary Construction Access
-  Limits of Construction Disturbance
-  076-081-019 Property Boundary and Assessor's Parcel Number (APN)



**BOB JONES PATHWAY**  
 SAN LUIS OBISPO TO ONTARIO ROAD



DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

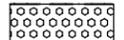
**MATCHLINE - SEE SHEET 2**

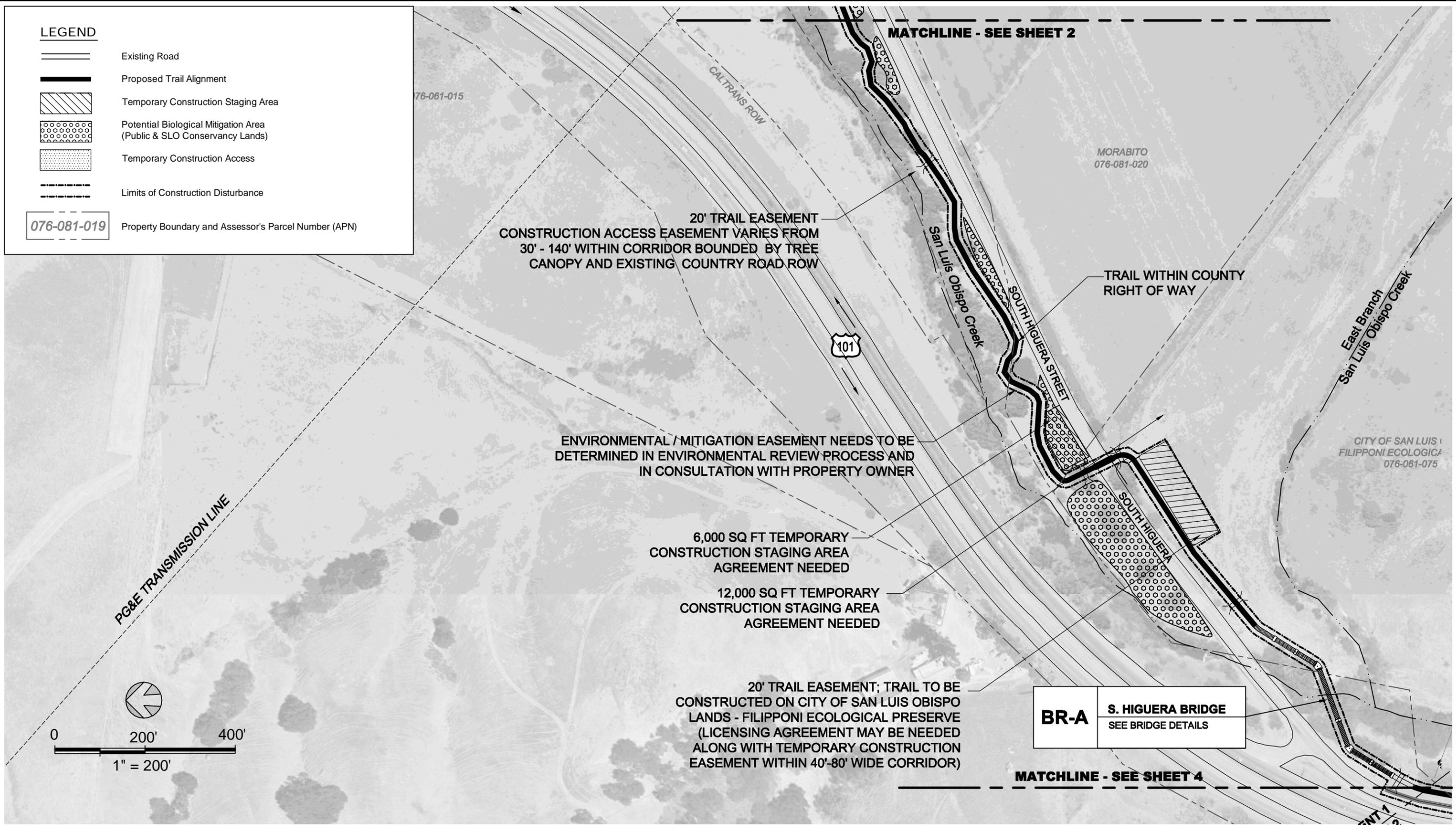
**QUESTA**  
 ENGINEERING CORP.  
 Civil Environmental & Water Resources  
 (510) 236-6114  
 FAX (510) 236-2423  
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
 questa@questaac.com

**TRAIL RIGHT OF WAY**

**SHEET**  
**2 OF 9**

**LEGEND**

-  Existing Road
-  Proposed Trail Alignment
-  Temporary Construction Staging Area
-  Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
-  Temporary Construction Access
-  Limits of Construction Disturbance
-  Property Boundary and Assessor's Parcel Number (APN)



20' TRAIL EASEMENT  
CONSTRUCTION ACCESS EASEMENT VARIES FROM  
30' - 140' WITHIN CORRIDOR BOUNDED BY TREE  
CANOPY AND EXISTING COUNTRY ROAD ROW

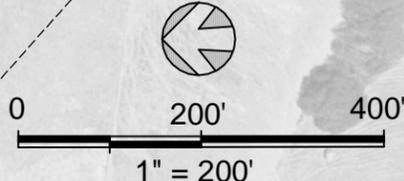
ENVIRONMENTAL / MITIGATION EASEMENT NEEDS TO BE  
DETERMINED IN ENVIRONMENTAL REVIEW PROCESS AND  
IN CONSULTATION WITH PROPERTY OWNER

6,000 SQ FT TEMPORARY  
CONSTRUCTION STAGING AREA  
AGREEMENT NEEDED

12,000 SQ FT TEMPORARY  
CONSTRUCTION STAGING AREA  
AGREEMENT NEEDED

20' TRAIL EASEMENT; TRAIL TO BE  
CONSTRUCTED ON CITY OF SAN LUIS OBISPO  
LANDS - FILIPPONI ECOLOGICAL PRESERVE  
(LICENSING AGREEMENT MAY BE NEEDED  
ALONG WITH TEMPORARY CONSTRUCTION  
EASEMENT WITHIN 40'-80' WIDE CORRIDOR)

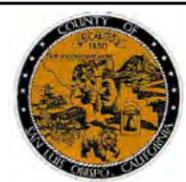
**BR-A** S. HIGUERA BRIDGE  
SEE BRIDGE DETAILS



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083



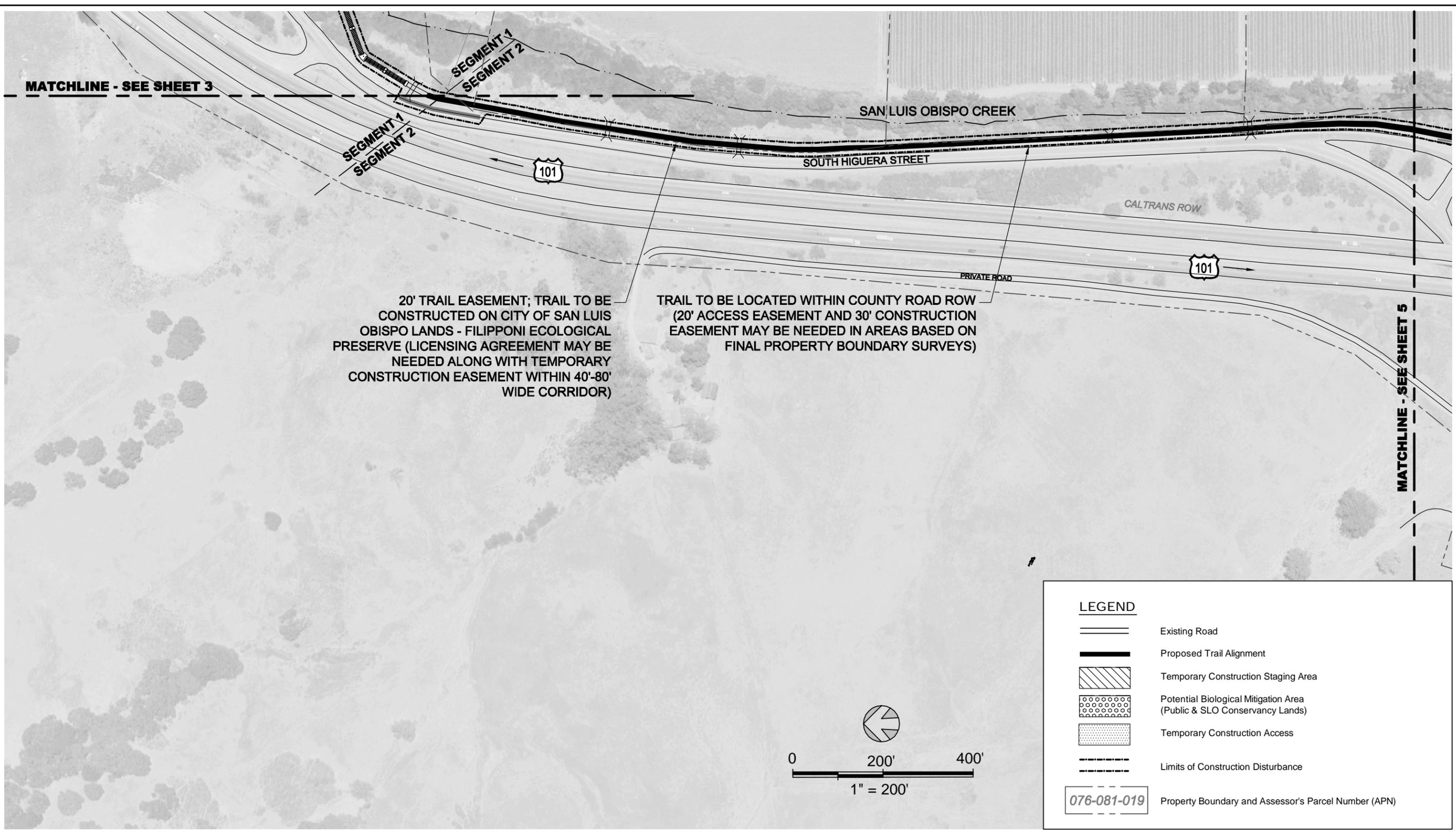
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

Civil  
Environmental  
& Water Resources

(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com

**TRAIL RIGHT OF WAY**

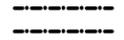
**SHEET**  
**3 OF 9**

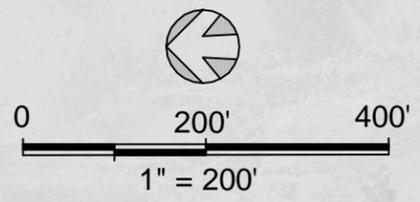


20' TRAIL EASEMENT; TRAIL TO BE CONSTRUCTED ON CITY OF SAN LUIS OBISPO LANDS - FILIPPONI ECOLOGICAL PRESERVE (LICENSING AGREEMENT MAY BE NEEDED ALONG WITH TEMPORARY CONSTRUCTION EASEMENT WITHIN 40'-80' WIDE CORRIDOR)

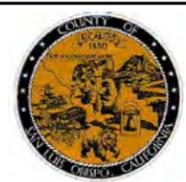
TRAIL TO BE LOCATED WITHIN COUNTY ROAD ROW (20' ACCESS EASEMENT AND 30' CONSTRUCTION EASEMENT MAY BE NEEDED IN AREAS BASED ON FINAL PROPERTY BOUNDARY SURVEYS)

**LEGEND**

-  Existing Road
-  Proposed Trail Alignment
-  Temporary Construction Staging Area
-  Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
-  Temporary Construction Access
-  Limits of Construction Disturbance
-  076-081-019 Property Boundary and Assessor's Parcel Number (APN)



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

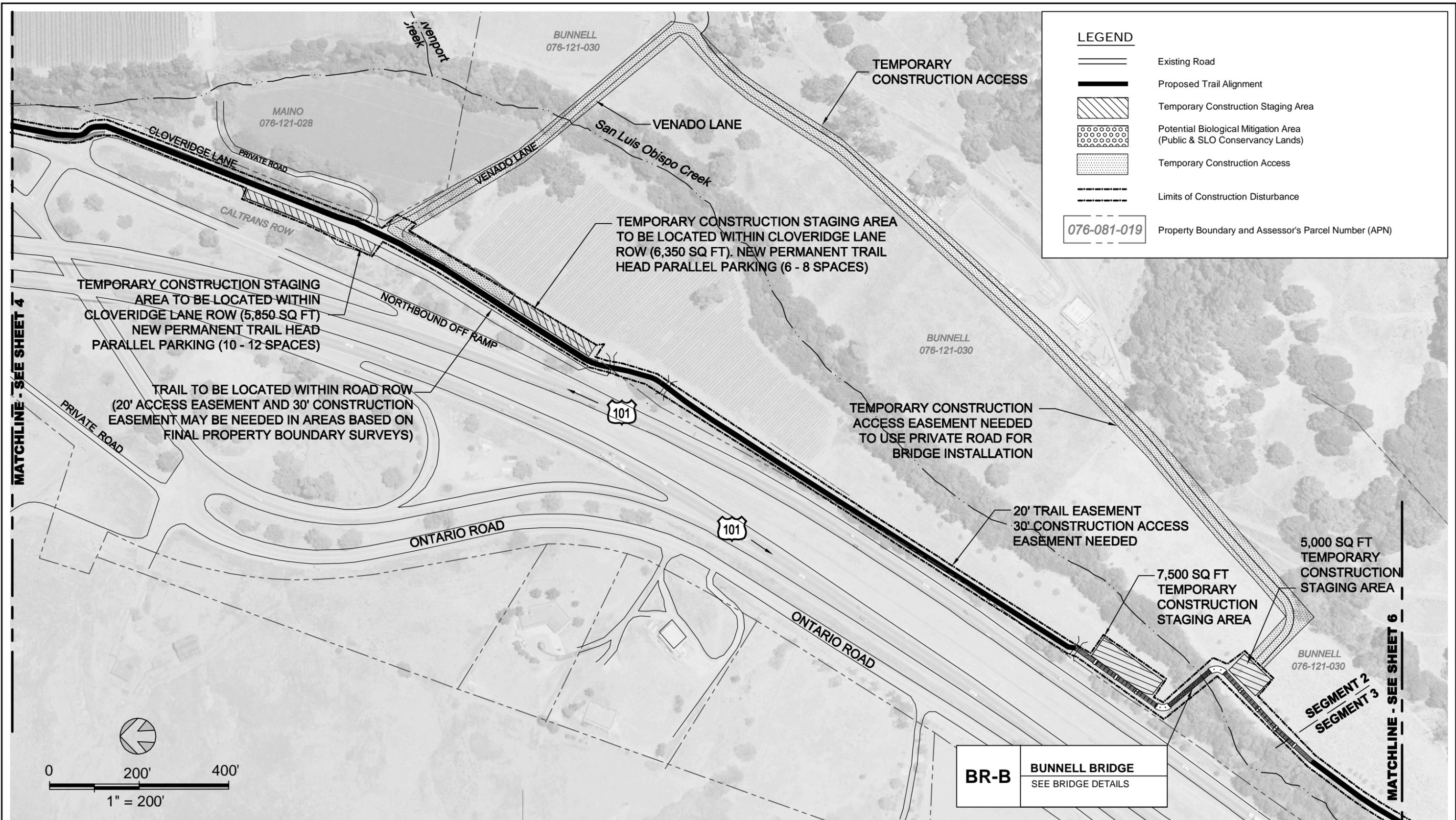


DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114 FAX (510) 236-2423  
questa@questacorp.com

**TRAIL RIGHT OF WAY**

**SHEET**  
**4 OF 9**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources

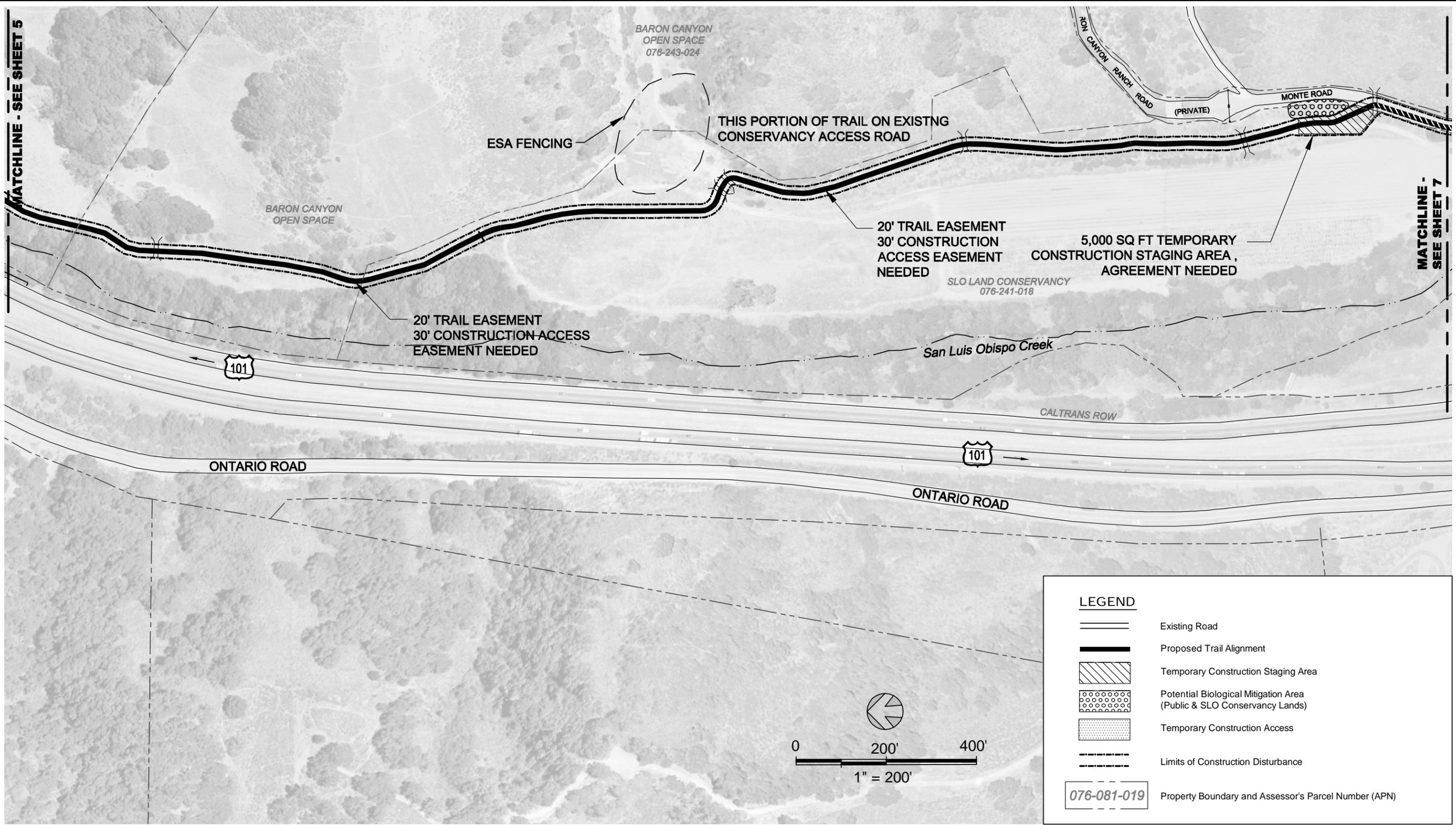
(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL RIGHT OF WAY**

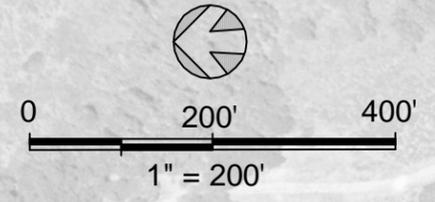
SHEET

5 OF 9



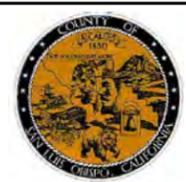
**LEGEND**

- Existing Road
- Proposed Trail Alignment
- Temporary Construction Staging Area
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Temporary Construction Access
- Limits of Construction Disturbance
- 076-081-019 Property Boundary and Assessor's Parcel Number (APN)



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>

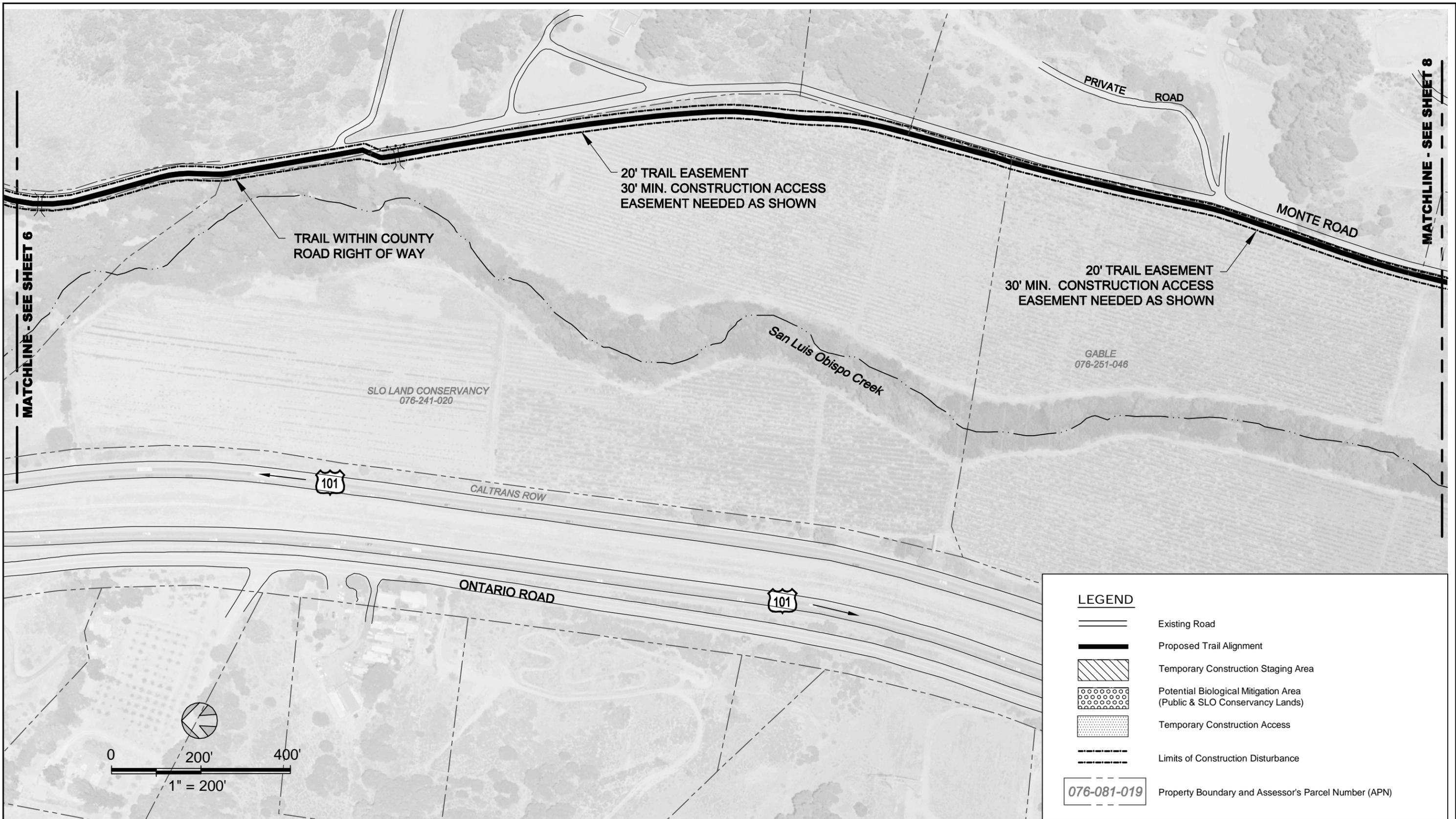


DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL RIGHT OF WAY**

**SHEET**  
**6 OF 9**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

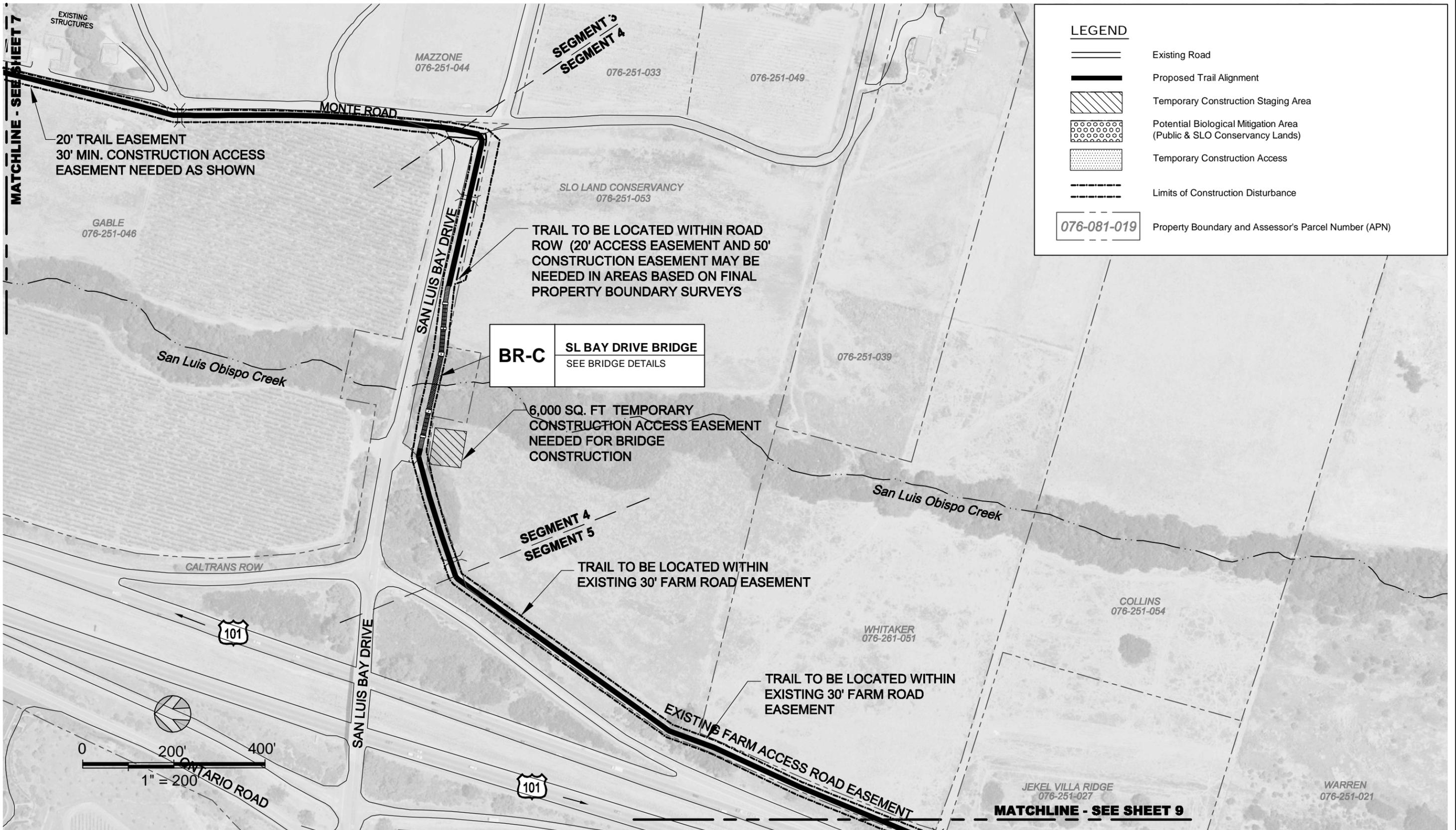


Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL RIGHT OF WAY**

**SHEET**

**7 OF 9**



**LEGEND**

- Existing Road
- Proposed Trail Alignment
- Temporary Construction Staging Area
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Temporary Construction Access
- Limits of Construction Disturbance
- Property Boundary and Assessor's Parcel Number (APN)

076-081-019

**BR-C** SL BAY DRIVE BRIDGE  
SEE BRIDGE DETAILS

6,000 SQ. FT TEMPORARY CONSTRUCTION ACCESS EASEMENT NEEDED FOR BRIDGE CONSTRUCTION

TRAIL TO BE LOCATED WITHIN EXISTING 30' FARM ROAD EASEMENT

TRAIL TO BE LOCATED WITHIN EXISTING 30' FARM ROAD EASEMENT

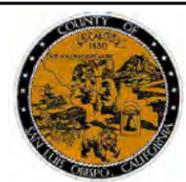
20' TRAIL EASEMENT  
30' MIN. CONSTRUCTION ACCESS EASEMENT NEEDED AS SHOWN

TRAIL TO BE LOCATED WITHIN ROAD ROW (20' ACCESS EASEMENT AND 50' CONSTRUCTION EASEMENT MAY BE NEEDED IN AREAS BASED ON FINAL PROPERTY BOUNDARY SURVEYS)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®

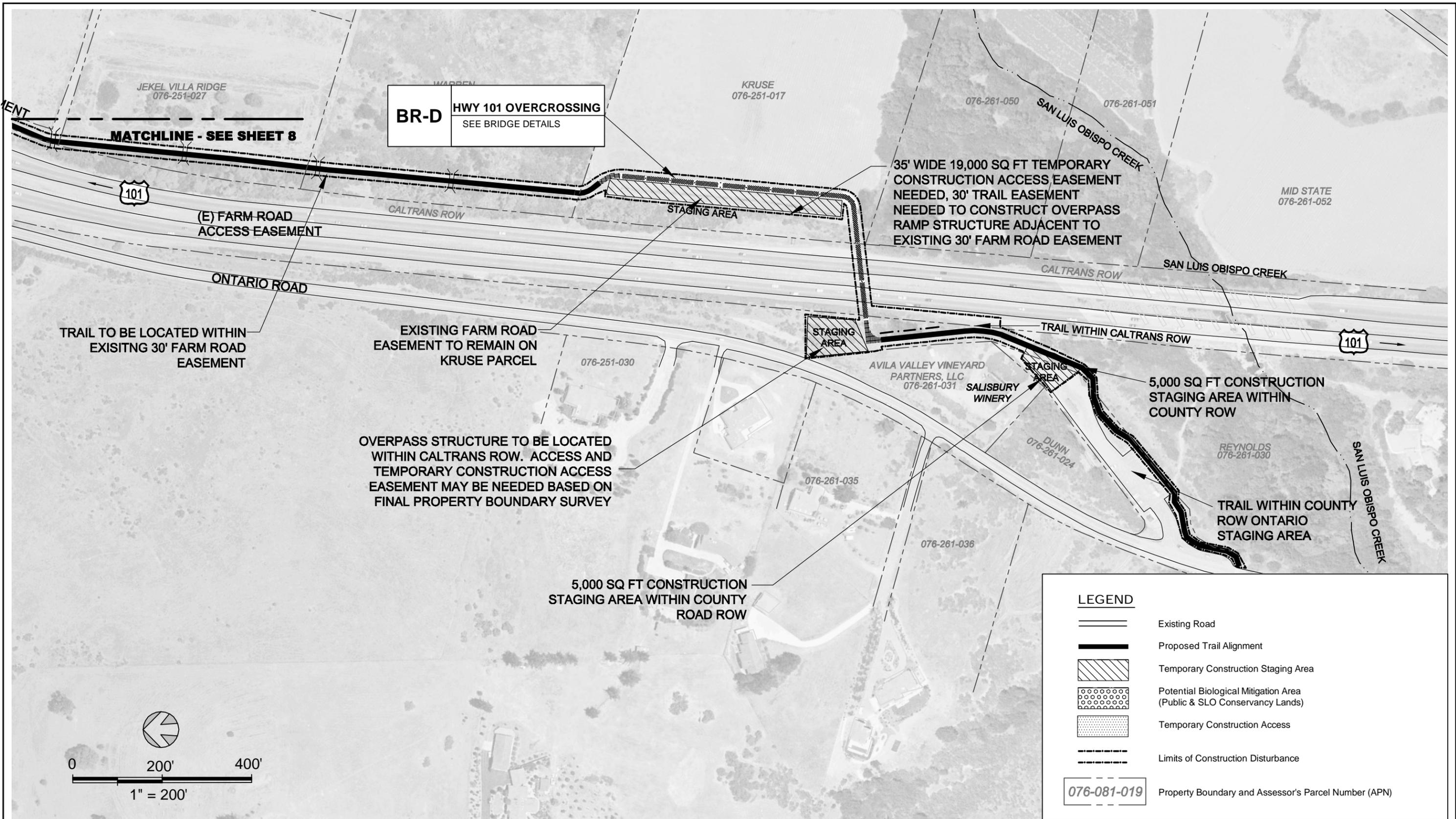


DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com

**TRAIL RIGHT OF WAY**

**SHEET**  
8 OF 9



**BR-D** HWY 101 OVERCROSSING  
SEE BRIDGE DETAILS

35' WIDE 19,000 SQ FT TEMPORARY CONSTRUCTION ACCESS EASEMENT NEEDED, 30' TRAIL EASEMENT NEEDED TO CONSTRUCT OVERPASS RAMP STRUCTURE ADJACENT TO EXISTING 30' FARM ROAD EASEMENT

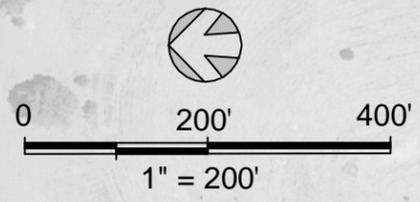
OVERPASS STRUCTURE TO BE LOCATED WITHIN CALTRANS ROW. ACCESS AND TEMPORARY CONSTRUCTION ACCESS EASEMENT MAY BE NEEDED BASED ON FINAL PROPERTY BOUNDARY SURVEY

5,000 SQ FT CONSTRUCTION STAGING AREA WITHIN COUNTY ROW

5,000 SQ FT CONSTRUCTION STAGING AREA WITHIN COUNTY ROAD ROW

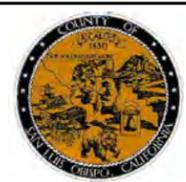
**LEGEND**

- Existing Road
- Proposed Trail Alignment
- Temporary Construction Staging Area
- Potential Biological Mitigation Area (Public & SLO Conservancy Lands)
- Temporary Construction Access
- Limits of Construction Disturbance
- 076-081-019** Property Boundary and Assessor's Parcel Number (APN)



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



DESIGN	MH
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL RIGHT OF WAY**

**SHEET**  
**9 OF 9**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>

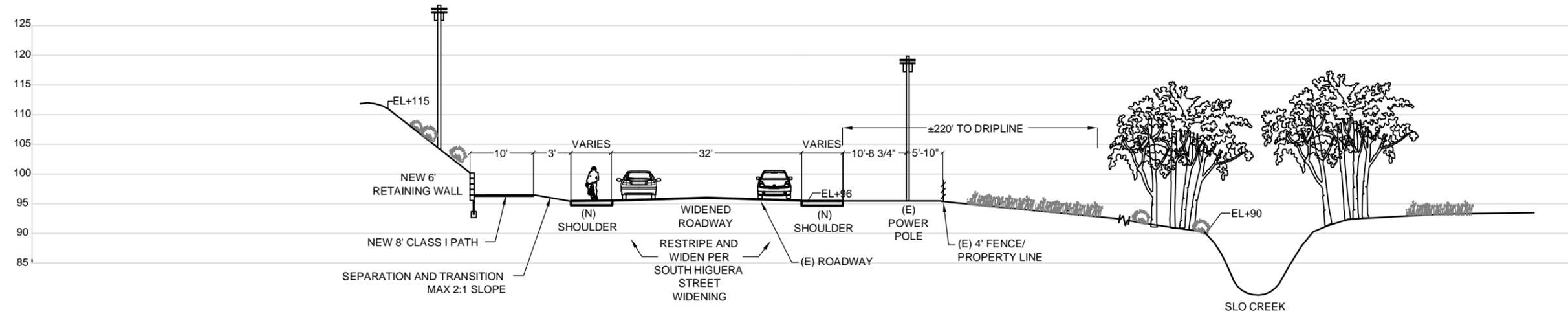


DESIGN	MH
DRAWN	IV
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

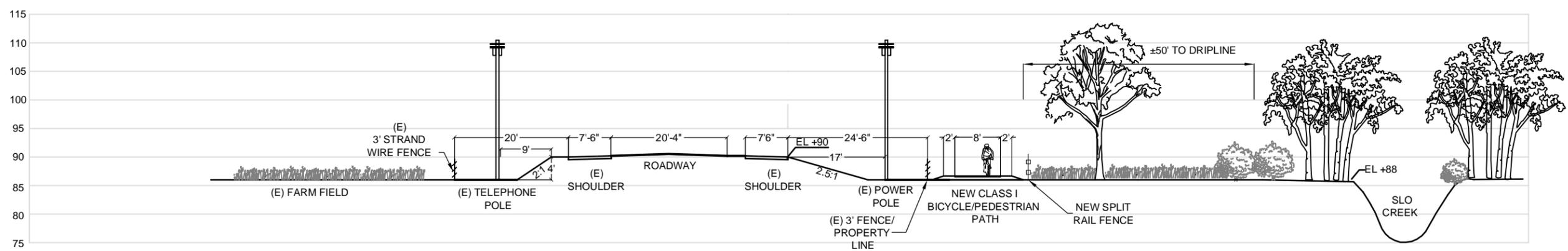
**QUESTA** Civil Environmental & Water Resources  
**ENGINEERING CORP.**  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questa.com

**CROSS SECTION LOCATIONS OVERVIEW**

**SHEET**  
**1 OF 11**



XS-1  
SOUTH HIGUERA NORTH OF BUCKLEY ROAD  
(LOOKING SOUTH)



XS-2  
SOUTH HIGUERA STREET AT FARM FIELD  
(LOOKING SOUTH)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



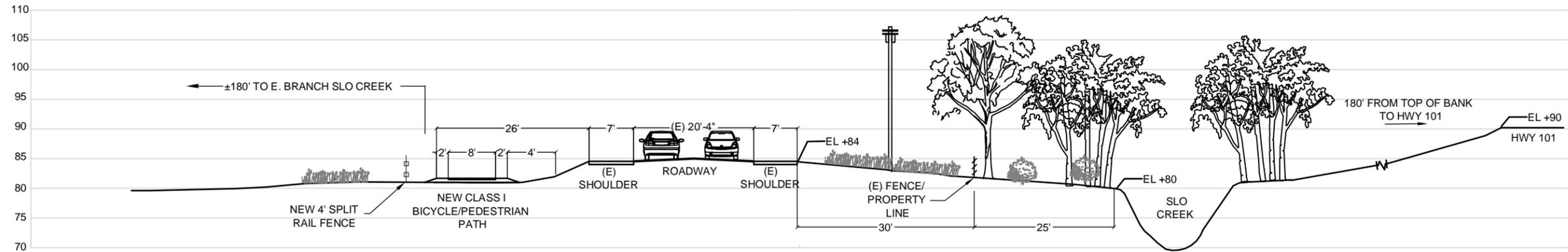
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

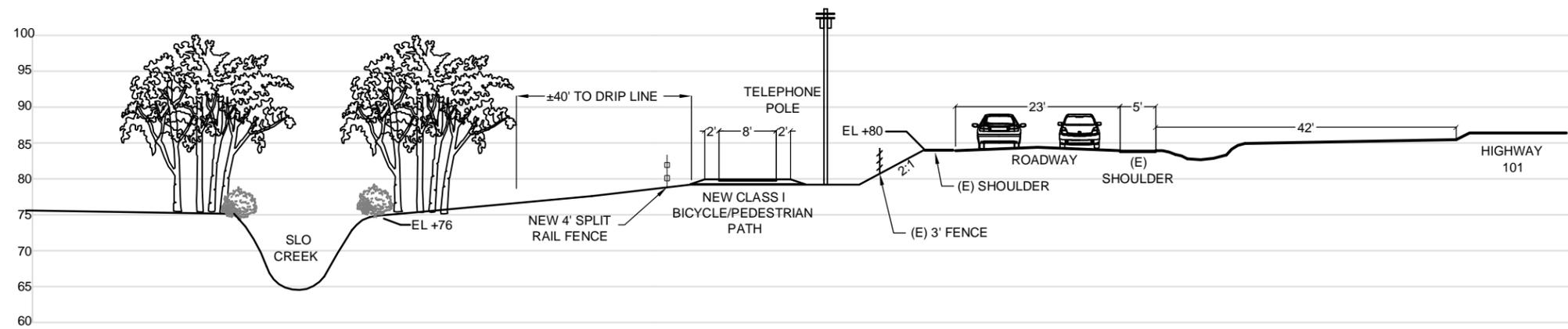
**TRAIL CROSS SECTIONS**  
1 AND 2

**SHEET**

**2 OF 11**



XS-3  
S. HIGUERA AT FILIPPONI PRESERVE DRIVEWAY  
(LOOKING SOUTH)



XS-4  
S. HIGUERA STREET  
(LOOKING SOUTH)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



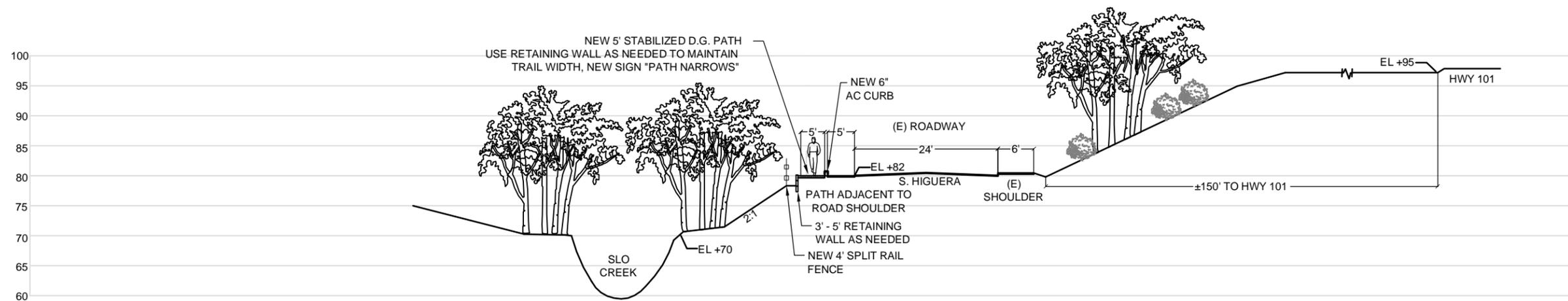
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

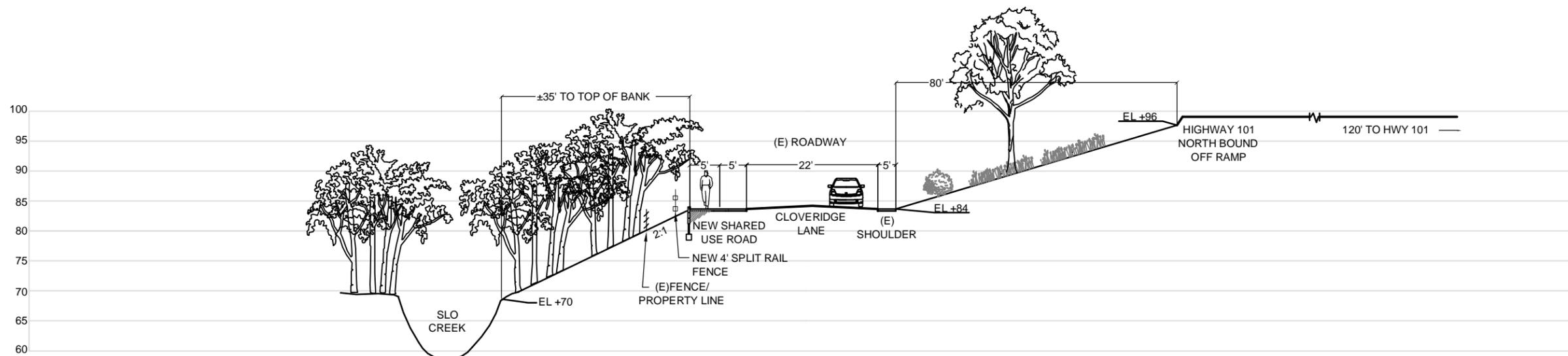
**TRAIL CROSS SECTIONS**  
**3 AND 4**

**SHEET**

**3 OF 11**



XS-5  
S.HIGUERA STREET NEAR CLOVERIDGE STOP SIGN  
(LOOKING SOUTH)



XS-6  
CLOVERIDGE LANE AT MAINO PROPERTY TRANSITION AREA  
(LOOKING SOUTH)

BOB JONES PATHWAY  
SAN LUIS OBISPO TO ONTARIO ROAD



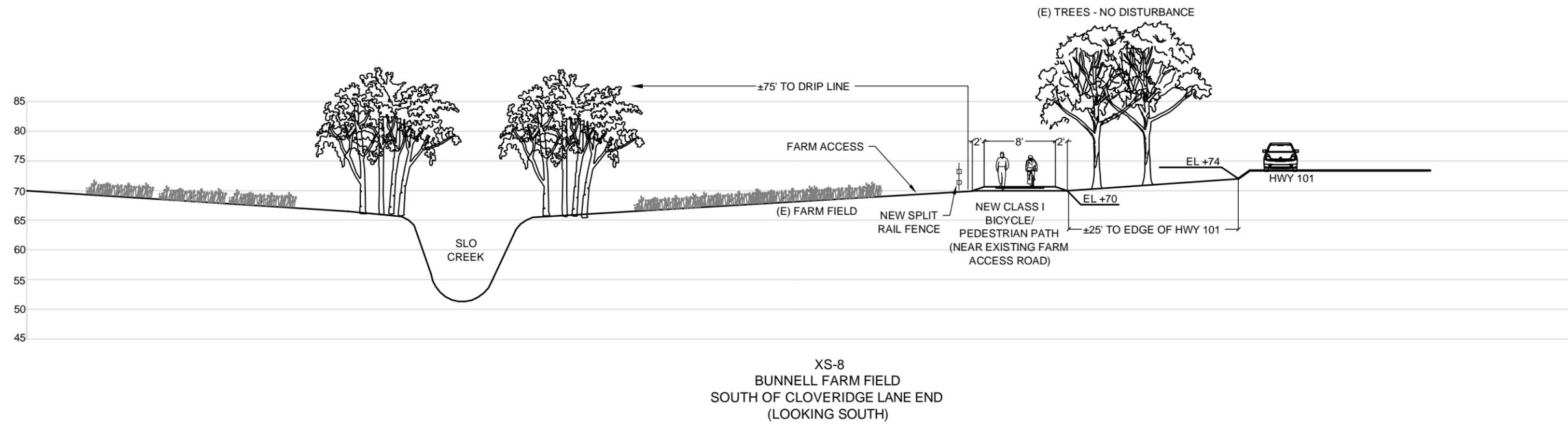
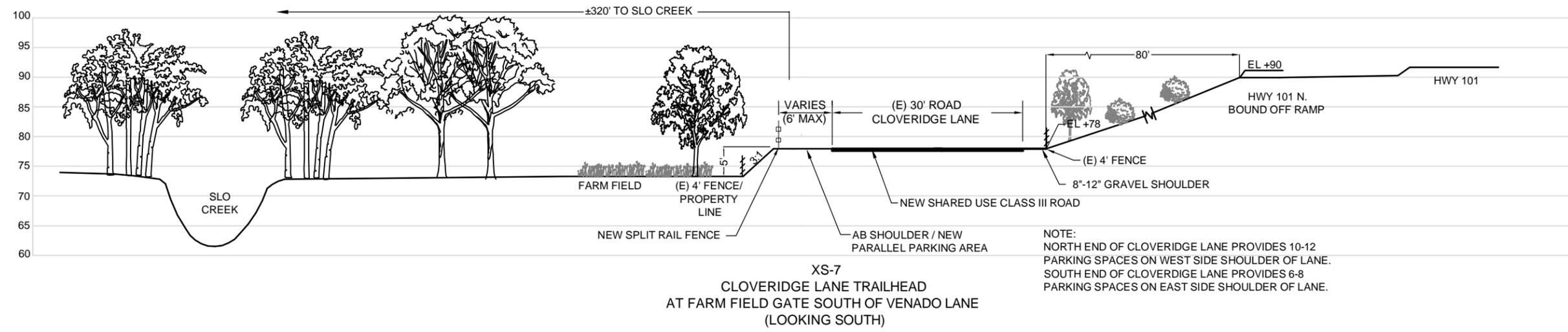
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083



TRAIL CROSS SECTIONS  
5 AND 6

SHEET

4 OF 11



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



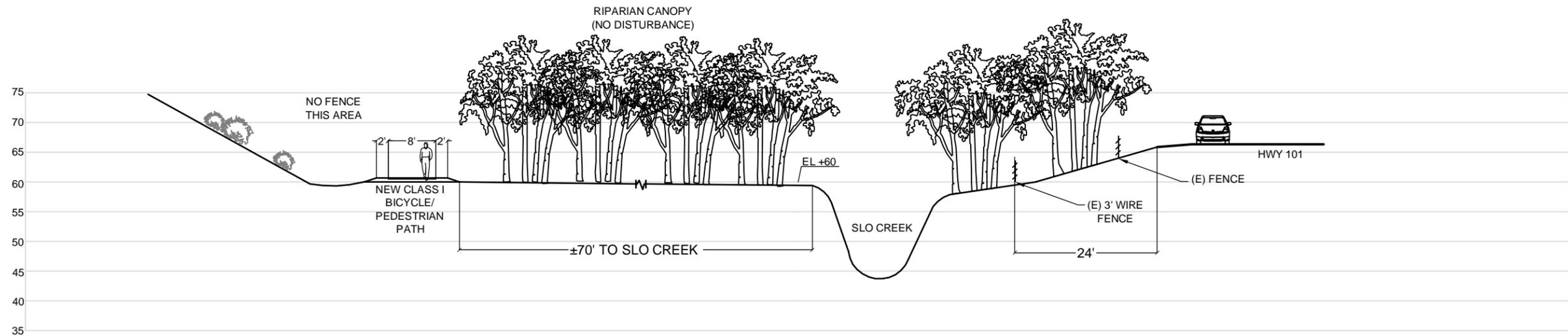
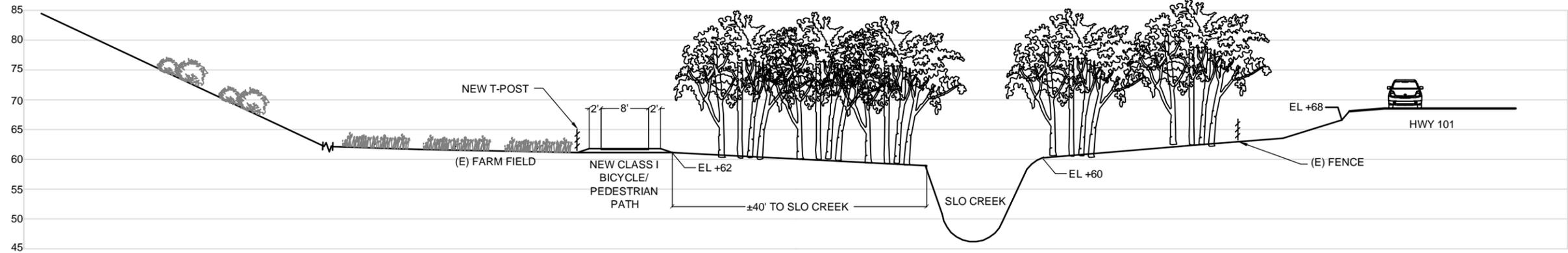
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
 Civil Environmental & Water Resources  
 (510) 236-6114  
 FAX (510) 236-2423  
 questa@questaec.com  
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL CROSS SECTIONS**  
**7 AND 8**

**SHEET**

**5 OF 11**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



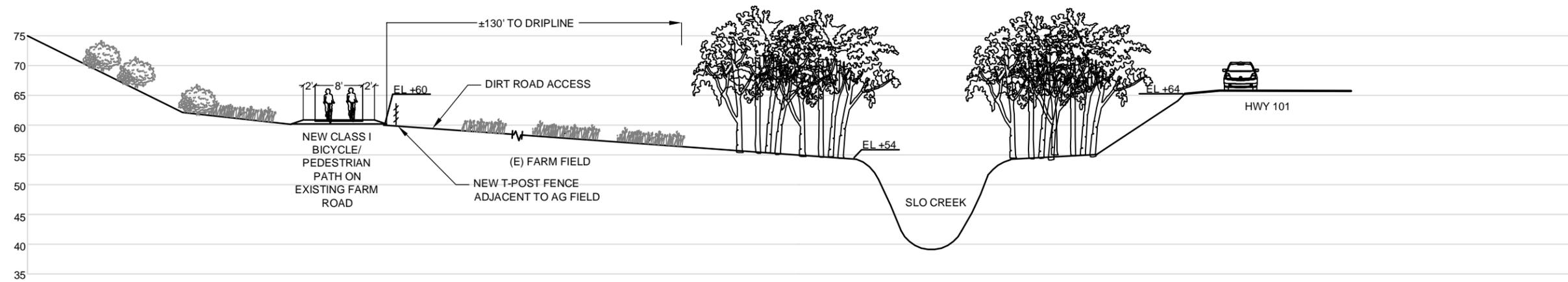
DESIGN  
DRAWN BJV  
CHECKED  
APPRD  
DATE 01/25/2012  
PROJECT NUMBER

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

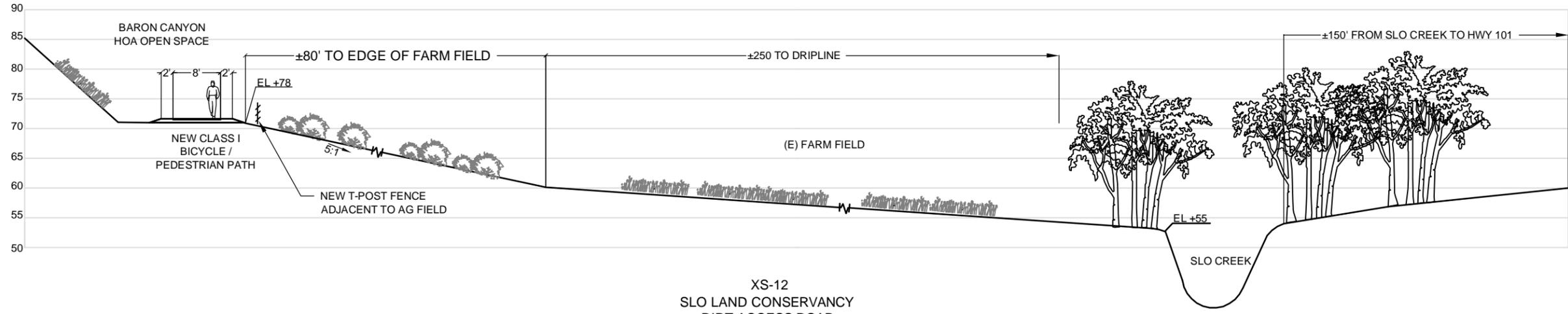
**TRAIL CROSS SECTIONS**  
9 AND 10

**SHEET**

**6 OF 11**



XS-11  
SLO CONSERVANCY  
DIRT ACCESS ROAD  
(LOOKING SOUTH)



XS-12  
SLO LAND CONSERVANCY  
DIRT ACCESS ROAD  
(LOOKING SOUTH)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



DESIGN	
DRAWN	BJV
CHECKED	
APPRD	
DATE	01/25/2012
PROJECT NUMBER	

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources

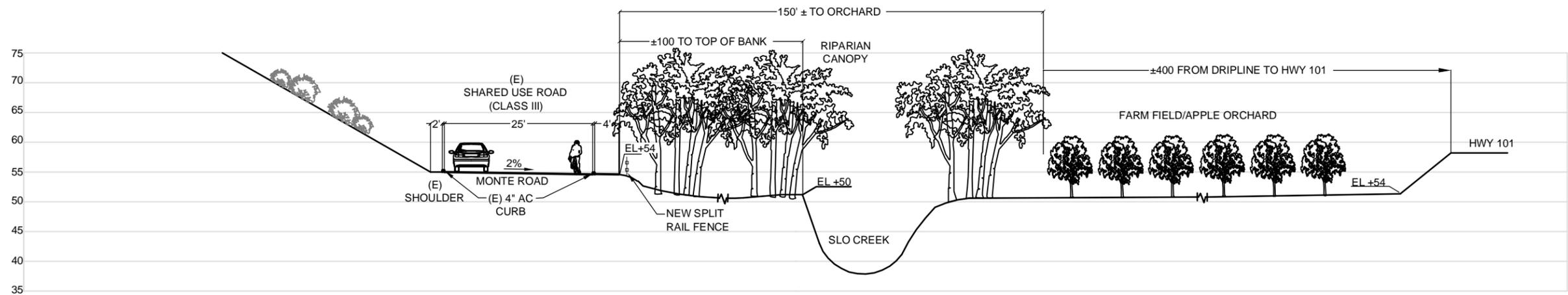
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

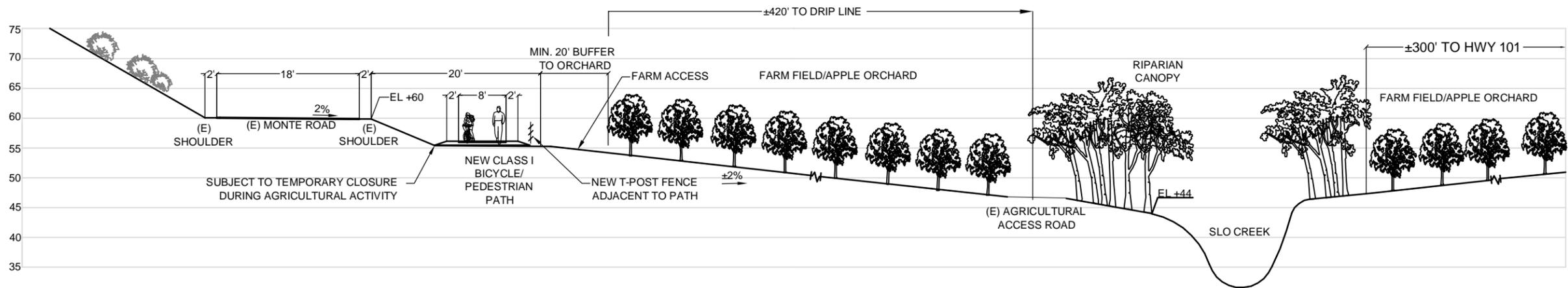
**CROSS SECTIONS**  
11 AND 12

**SHEET**

**7 OF 11**



XS-13  
MONTE ROAD SOUTH OF DRIVEWAY  
TO BARON CANYON ESTATES  
(LOOKING SOUTH)



XS-14  
MONTE ROAD JUST SOUTH OF FARM BRIDGE  
(LOOKING SOUTH)

BOB JONES PATHWAY  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



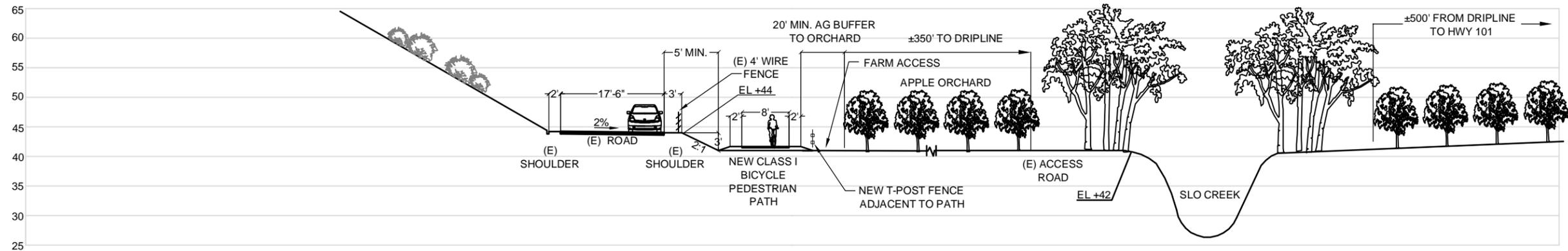
DESIGN  
DRAWN BJV  
CHECKED  
APPRD  
DATE 01/25/2012  
PROJECT NUMBER

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

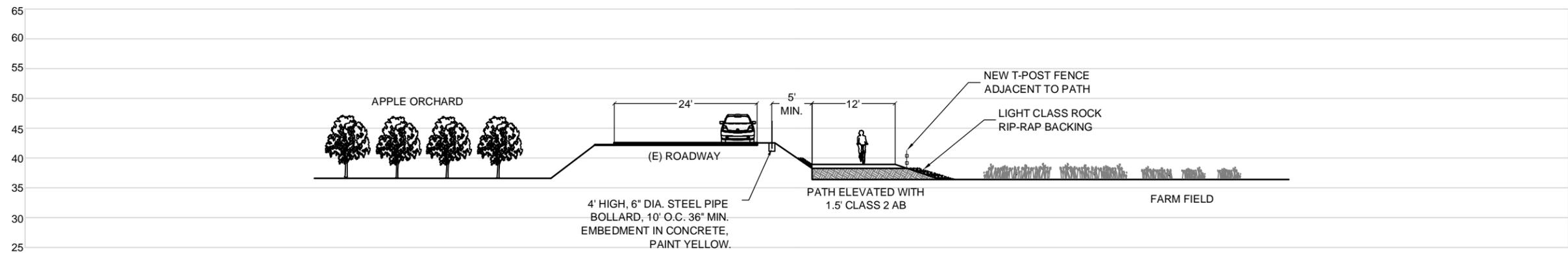
TRAIL CROSS SECTIONS  
13 AND 14

SHEET

8 OF 11



XS-15  
MONTE ROAD NORTH OF SAN LUIS BAY DRIVE  
(LOOKING SOUTH)



XS-16  
ALONG SAN LUIS BAY DRIVE NEAR MONTE ROAD  
(LOOKING EAST)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



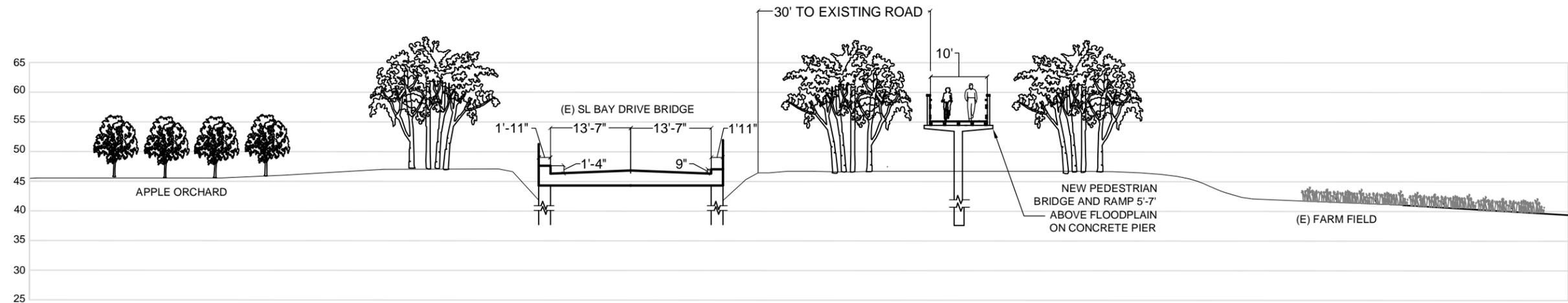
DESIGN JP/JM  
DRAWN BJV  
CHECKED JP  
APPRD JP  
DATE 01/25/2012  
PROJECT NUMBER 250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

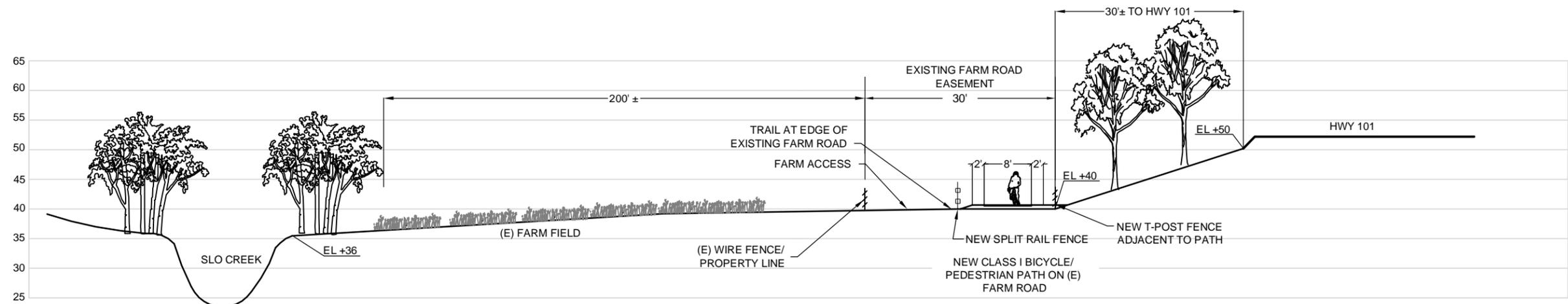
**TRAIL CROSS SECTIONS**  
15 AND 16

**SHEET**

**9 OF 11**



XS-17  
NEAR SAN LUIS BAY DRIVE BRIDGE  
(LOOKING EAST)



XS-18  
FARM ROAD SOUTH OF SAN LUIS BRIDGE  
(LOOKING SOUTH)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



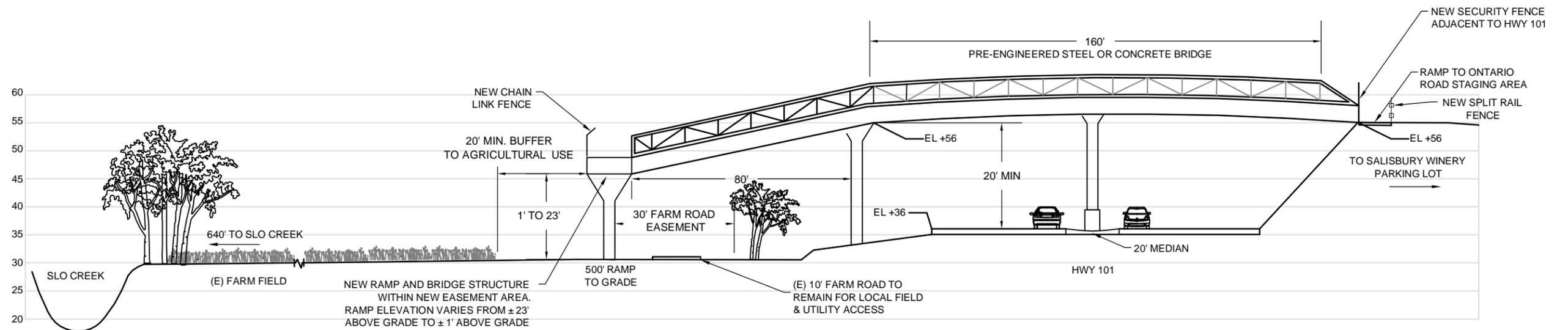
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPR'D	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL CROSS SECTIONS**  
17 AND 18

**SHEET**

**10 OF 11**



XS-19  
AT HWY 101 OVERCROSSING  
(LOOKING SOUTH)

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



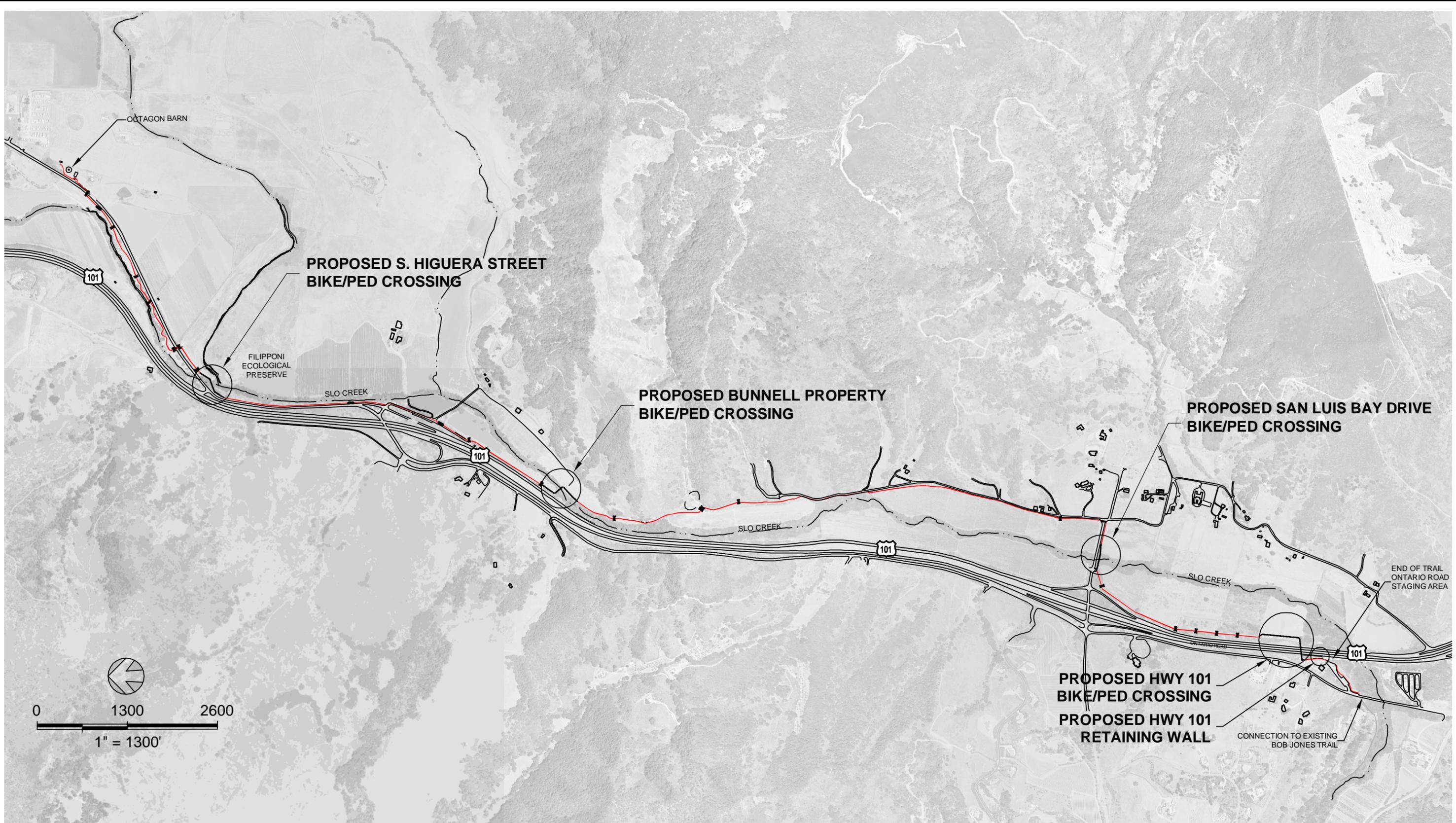
DESIGN	JP/JM
DRAWN	BJV
CHECKED	JP
APPR'D	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**TRAIL CROSS SECTION**  
19

**SHEET**

**11 OF 11**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	JCM
DRAWN	BJV
CHECKED	JP/JM
APPR'D	JP
DATE	01/19/2012
PROJECT NUMBER	250083

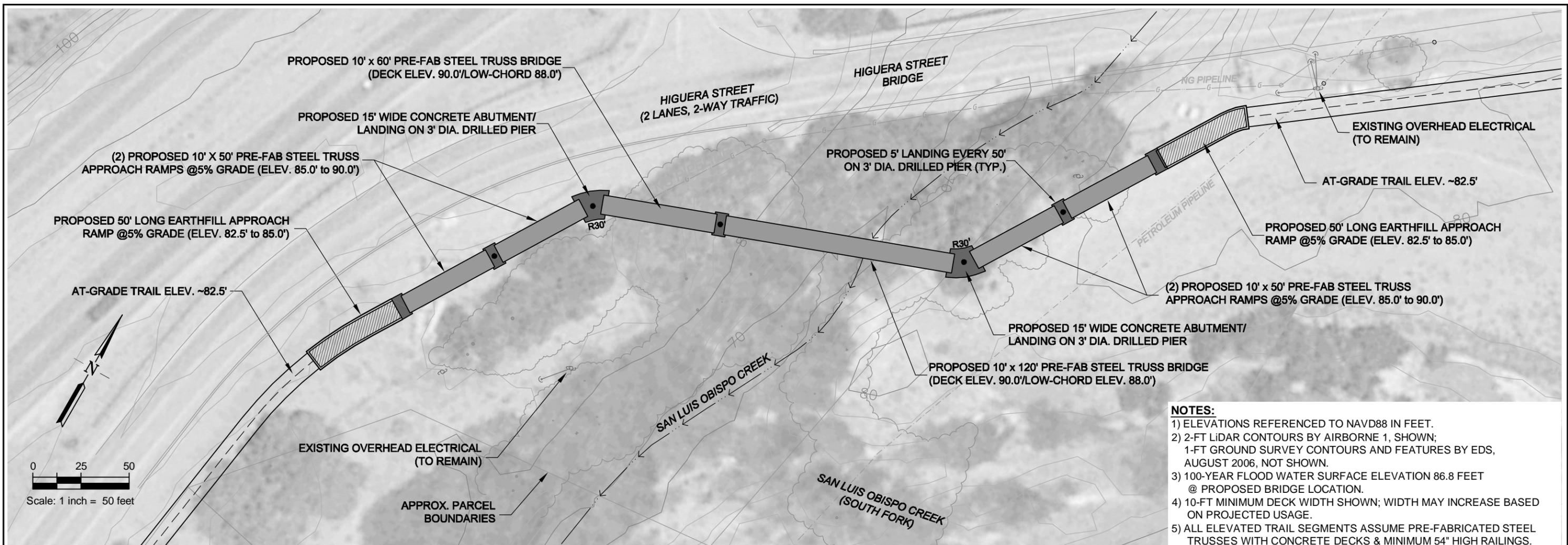


Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**PROPOSED BICYCLE / PEDESTRIAN CROSSINGS**

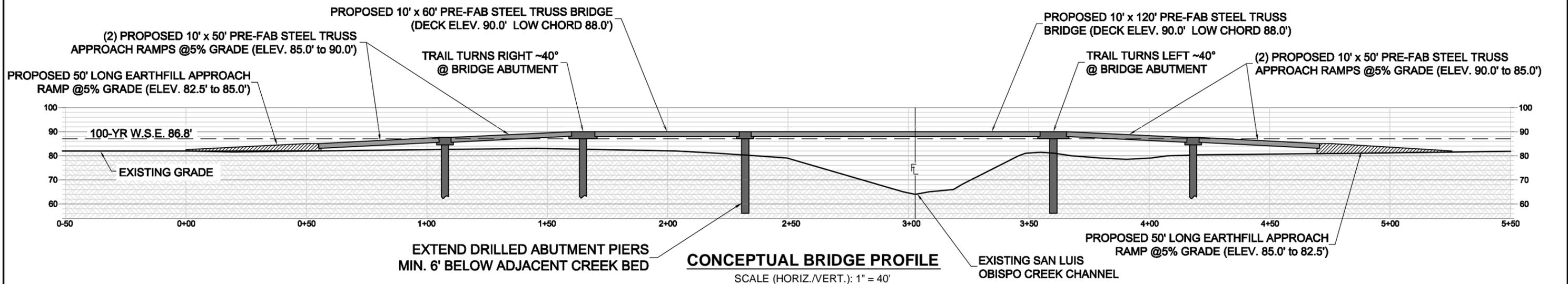
SHEET

1 OF 7



**CONCEPTUAL BRIDGE PLAN**

SCALE: 1" = 50'



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



DESIGN	JCM
DRAWN	MCL
CHECKED	JP
APPR'D	JCM
DATE	01/19/2012
PROJECT NUMBER	250083

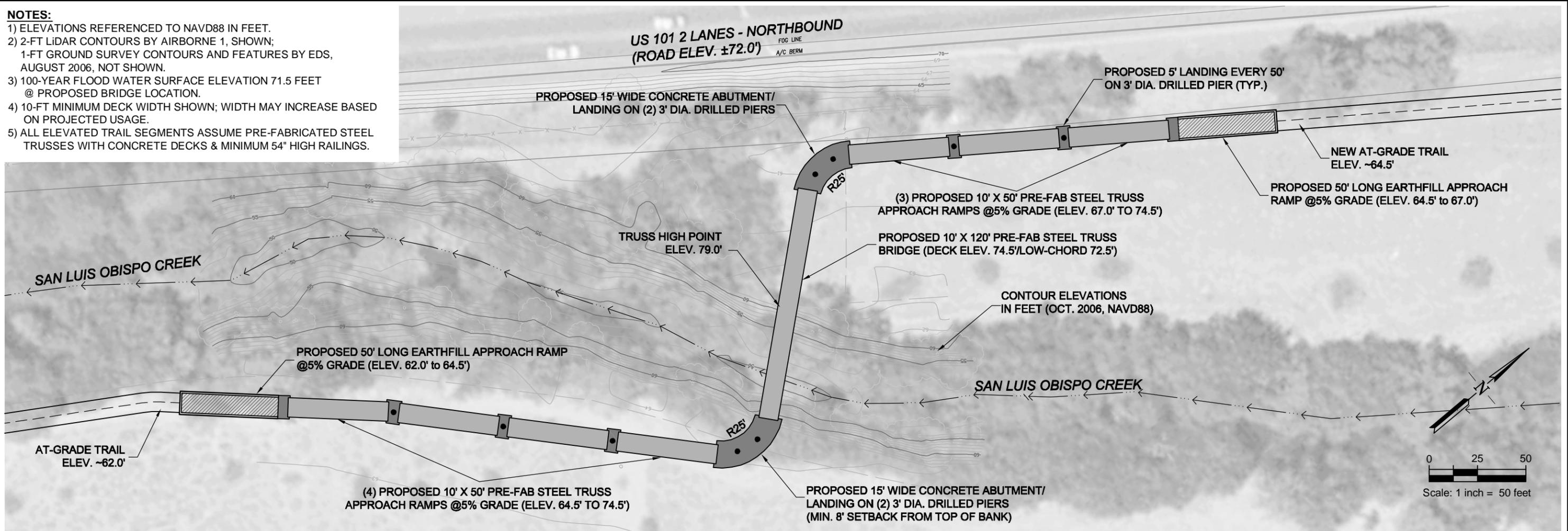


**CONCEPTUAL SAN LUIS OBISPO CREEK CROSSING AT HIGUERA STREET**

**SHEET**  
**2 OF 7**

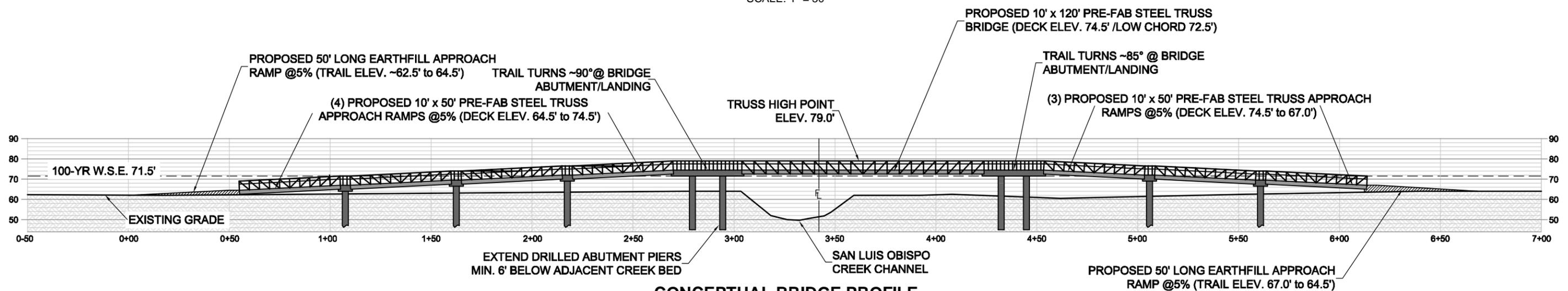
**NOTES:**

- 1) ELEVATIONS REFERENCED TO NAVD88 IN FEET.
- 2) 2-FT LIDAR CONTOURS BY AIRBORNE 1, SHOWN;  
1-FT GROUND SURVEY CONTOURS AND FEATURES BY EDS,  
AUGUST 2006, NOT SHOWN.
- 3) 100-YEAR FLOOD WATER SURFACE ELEVATION 71.5 FEET  
@ PROPOSED BRIDGE LOCATION.
- 4) 10-FT MINIMUM DECK WIDTH SHOWN; WIDTH MAY INCREASE BASED  
ON PROJECTED USAGE.
- 5) ALL ELEVATED TRAIL SEGMENTS ASSUME PRE-FABRICATED STEEL  
TRUSSES WITH CONCRETE DECKS & MINIMUM 54" HIGH RAILINGS.



**CONCEPTUAL BRIDGE PLAN**

SCALE: 1" = 50'



**CONCEPTUAL BRIDGE PROFILE**

SCALE (HORIZ./VERT.): 1" = 50'

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®

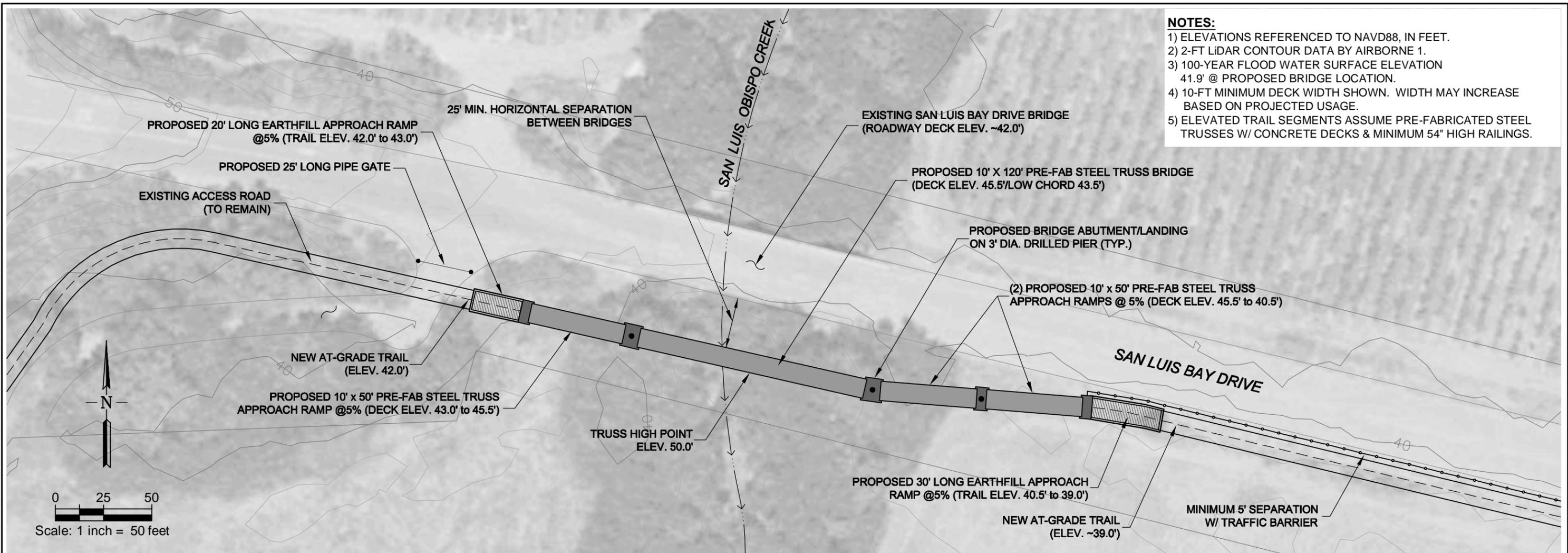


DESIGN	JCM
DRAWN	MCL
CHECKED	JP
APPRD	JCM
DATE	01/19/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

**CONCEPTUAL SAN LUIS OBISPO CREEK CROSSING AT BUNNELL PROPERTY**

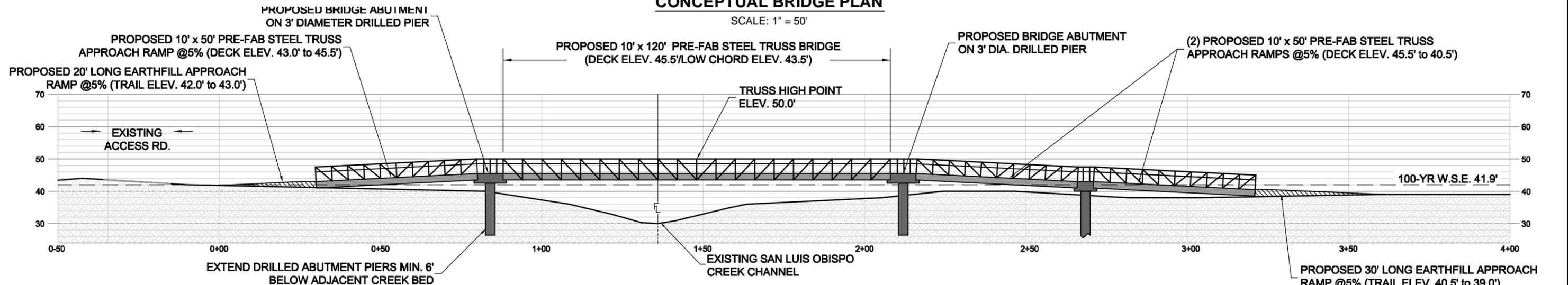
**SHEET**  
**3 OF 7**



- NOTES:**
- 1) ELEVATIONS REFERENCED TO NAVD88, IN FEET.
  - 2) 2-FT LIDAR CONTOUR DATA BY AIRBORNE 1.
  - 3) 100-YEAR FLOOD WATER SURFACE ELEVATION 41.9' @ PROPOSED BRIDGE LOCATION.
  - 4) 10-FT MINIMUM DECK WIDTH SHOWN. WIDTH MAY INCREASE BASED ON PROJECTED USAGE.
  - 5) ELEVATED TRAIL SEGMENTS ASSUME PRE-FABRICATED STEEL TRUSSES W/ CONCRETE DECKS & MINIMUM 54" HIGH RAILINGS.

**CONCEPTUAL BRIDGE PLAN**

SCALE: 1" = 50'



**CONCEPTUAL BRIDGE PROFILE**

SCALE (HORIZ./VERT.): 1" = 30'

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

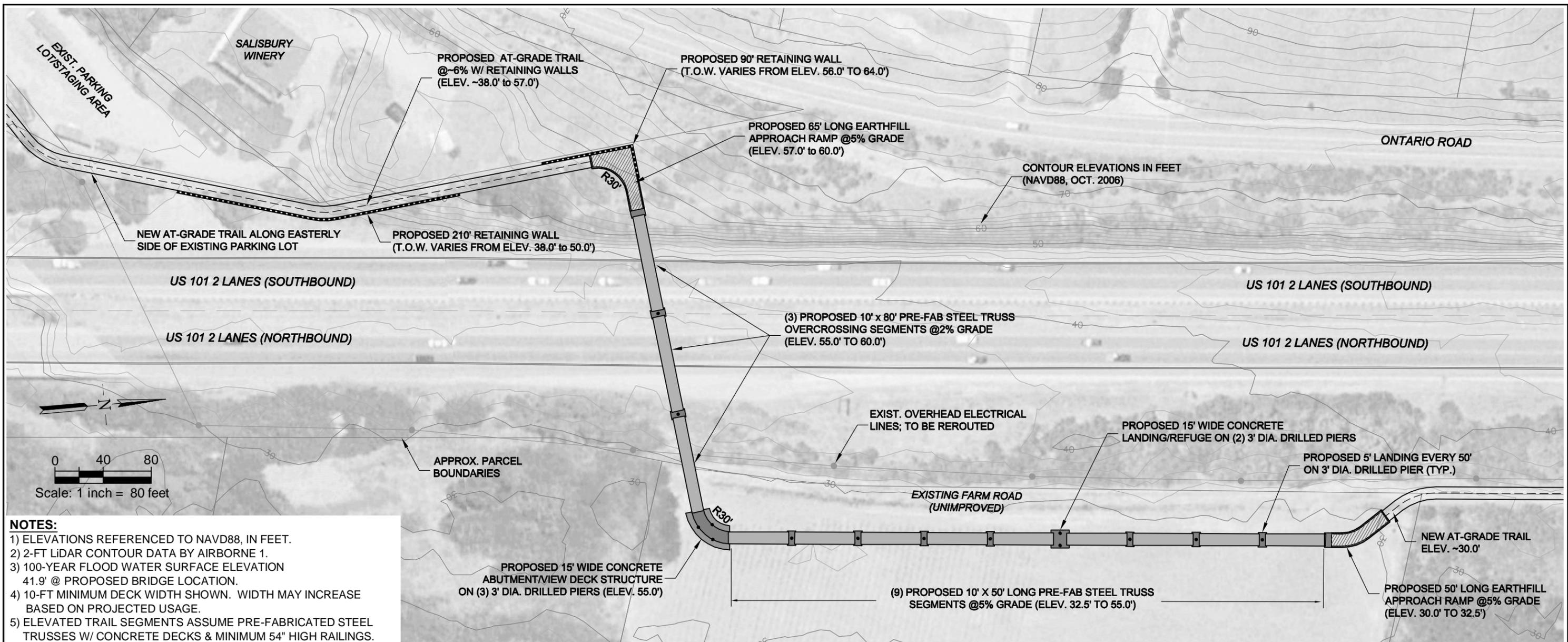


DESIGN	JCM
DRAWN	MCL
CHECKED	JP
APPRD	JCM
DATE	01/19/2012
PROJECT NUMBER	250083



**CONCEPTUAL SAN LUIS OBISPO CREEK CROSSING AT SAN LUIS BAY DRIVE**

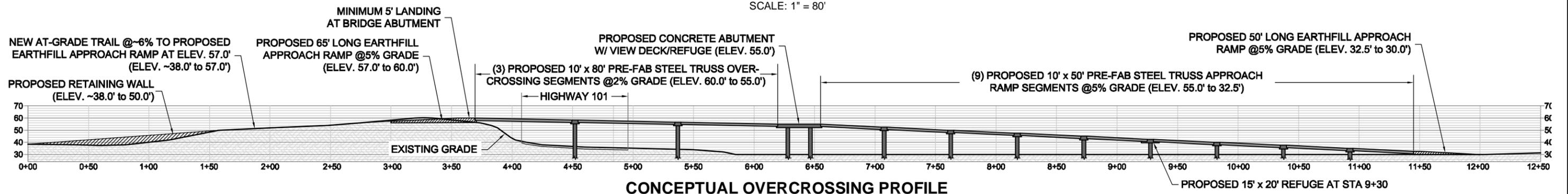
**SHEET**  
**4 OF 7**



- NOTES:**
- 1) ELEVATIONS REFERENCED TO NAVD88, IN FEET.
  - 2) 2-FT LIDAR CONTOUR DATA BY AIRBORNE 1.
  - 3) 100-YEAR FLOOD WATER SURFACE ELEVATION 41.9' @ PROPOSED BRIDGE LOCATION.
  - 4) 10-FT MINIMUM DECK WIDTH SHOWN. WIDTH MAY INCREASE BASED ON PROJECTED USAGE.
  - 5) ELEVATED TRAIL SEGMENTS ASSUME PRE-FABRICATED STEEL TRUSSES W/ CONCRETE DECKS & MINIMUM 54" HIGH RAILINGS.

**CONCEPTUAL OVERCROSSING PLAN**

SCALE: 1" = 80'



**CONCEPTUAL OVERCROSSING PROFILE**

SCALE (HORIZ./VERT.): 1" = 80'

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



Sound Science. Creative Solutions.®



DESIGN	JCM
DRAWN	MCL
CHECKED	JP
APPRD	JCM
DATE	01/19/2012
PROJECT NUMBER	250083



P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

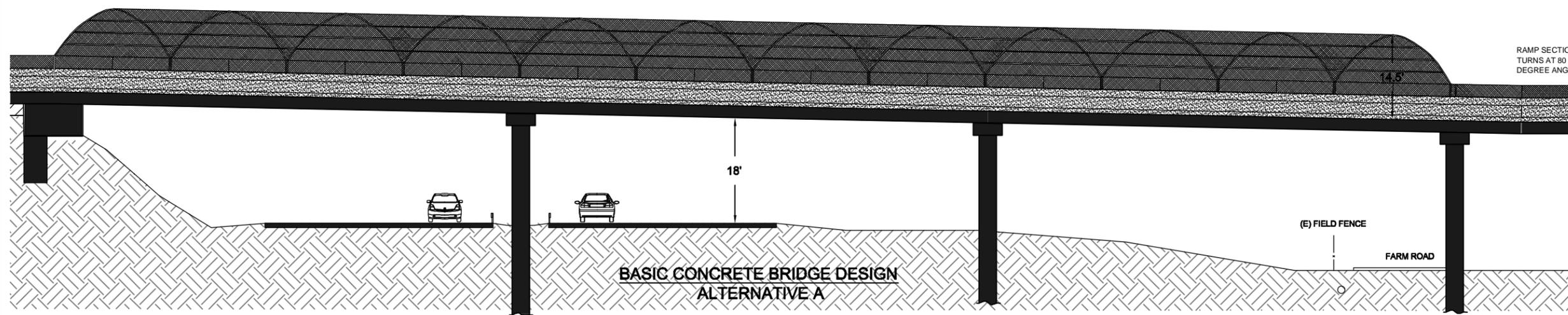
Civil  
Environmental  
& Water Resources

(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

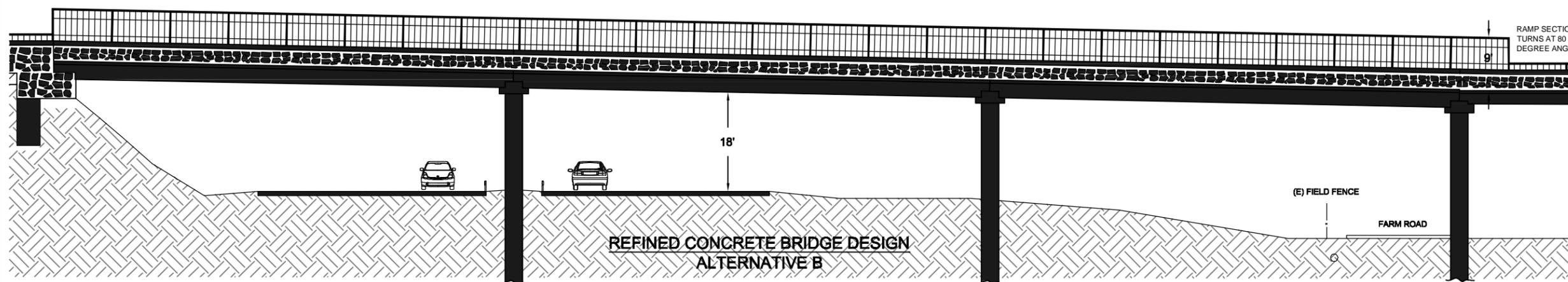
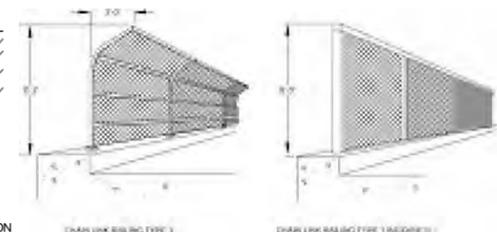
**CONCEPTUAL HIGHWAY 101  
OVERCROSSING**

SHEET

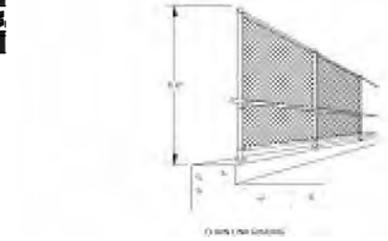
5 OF 7



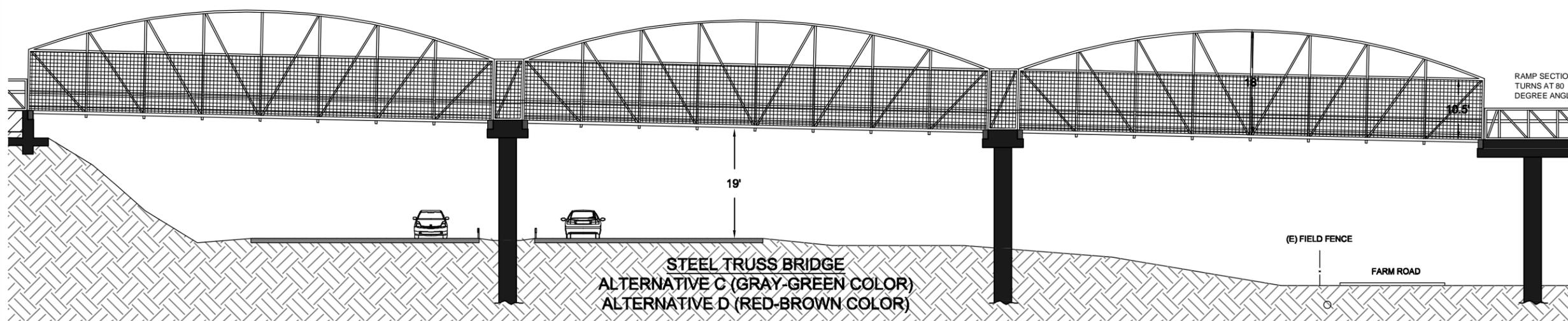
**BASIC CONCRETE BRIDGE DESIGN  
ALTERNATIVE A**



**REFINED CONCRETE BRIDGE DESIGN  
ALTERNATIVE B**



**CALTRANS PEDESTRIAN RAILINGS  
FOR BRIDGE STRUCTURES**



**STEEL TRUSS BRIDGE  
ALTERNATIVE C (GRAY-GREEN COLOR)  
ALTERNATIVE D (RED-BROWN COLOR)**

**CONCEPTUAL HIGHWAY 101 OVERCROSSING AND APPROACH**  
SCALE: 1" ≈ 20'

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

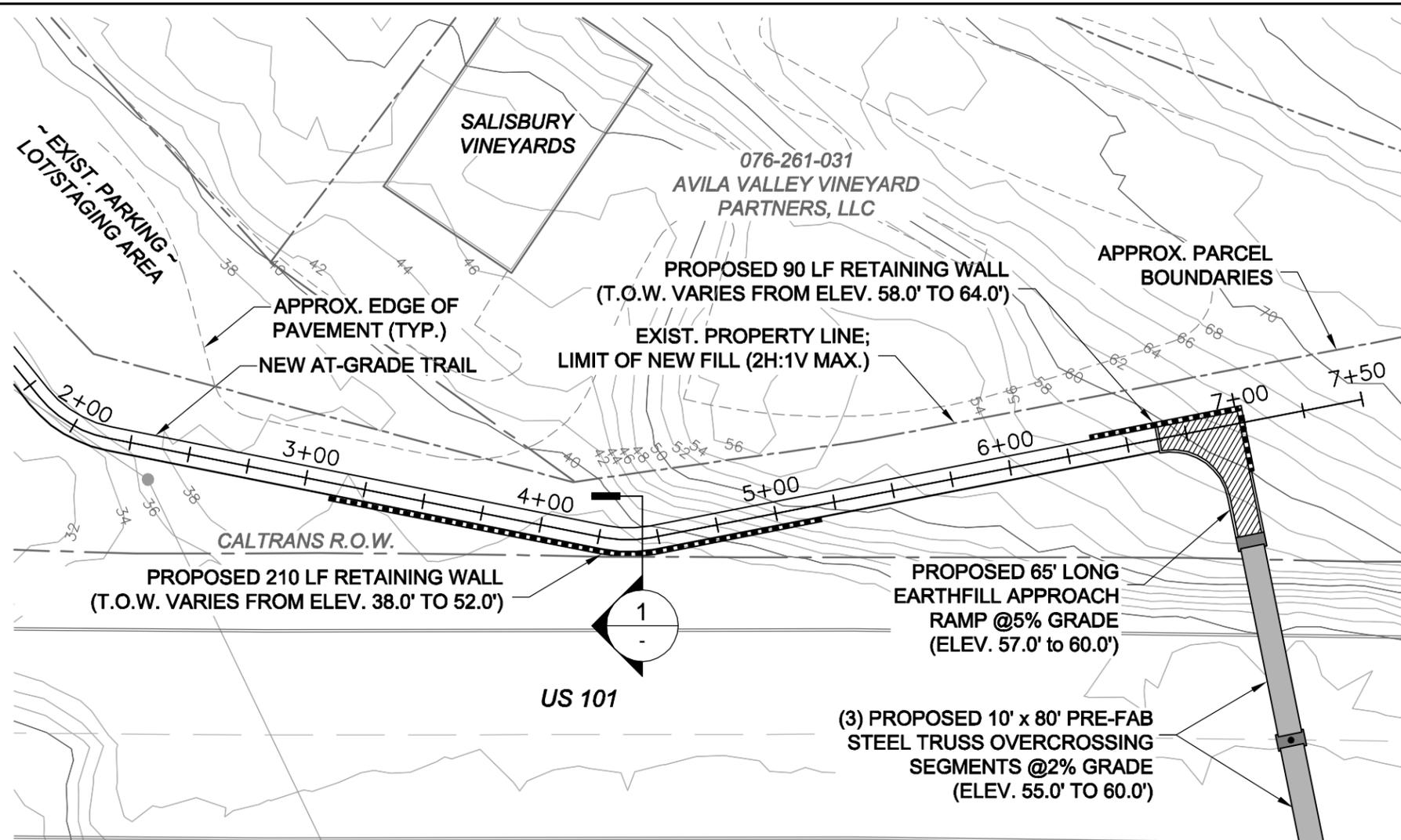


DESIGN	JCM
DRAWN	BJV/JCM
CHECKED	JHP
APPRD	JCM
DATE	01/19/2012
PROJECT NUMBER	250083

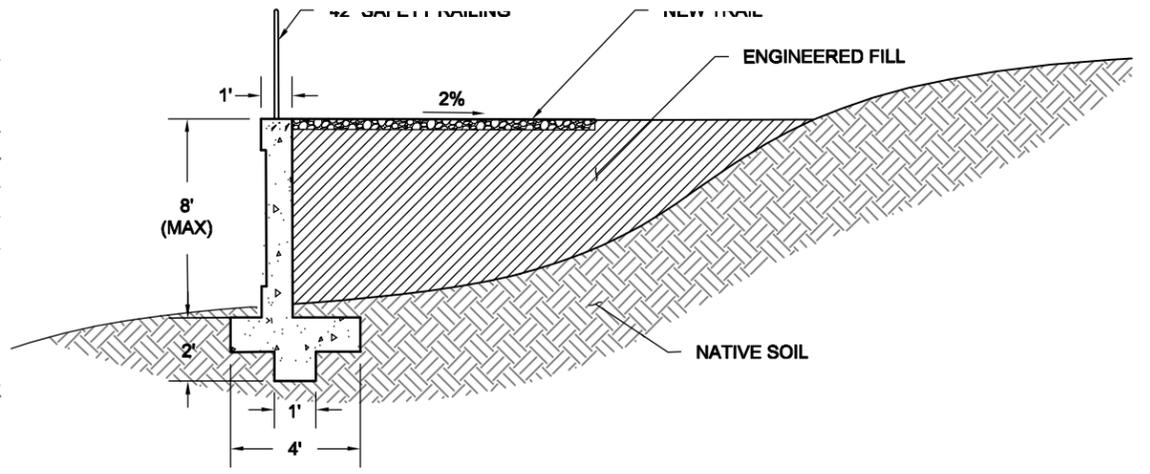
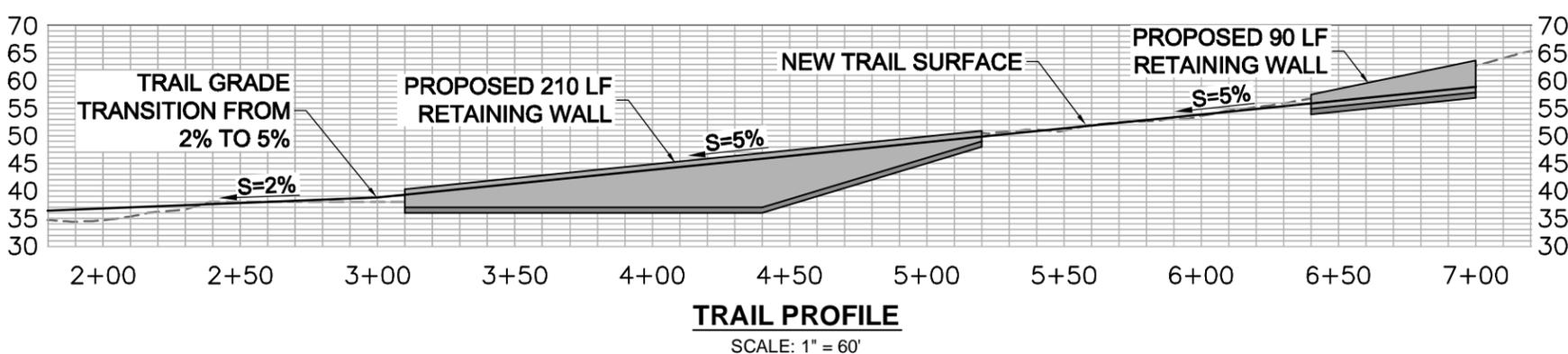
**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

**CONCEPTUAL HIGHWAY 101  
OVERCROSSING OPTIONS**

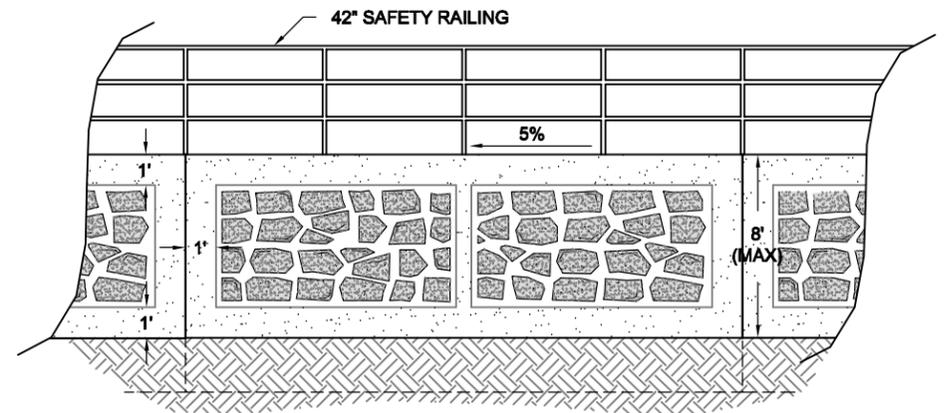
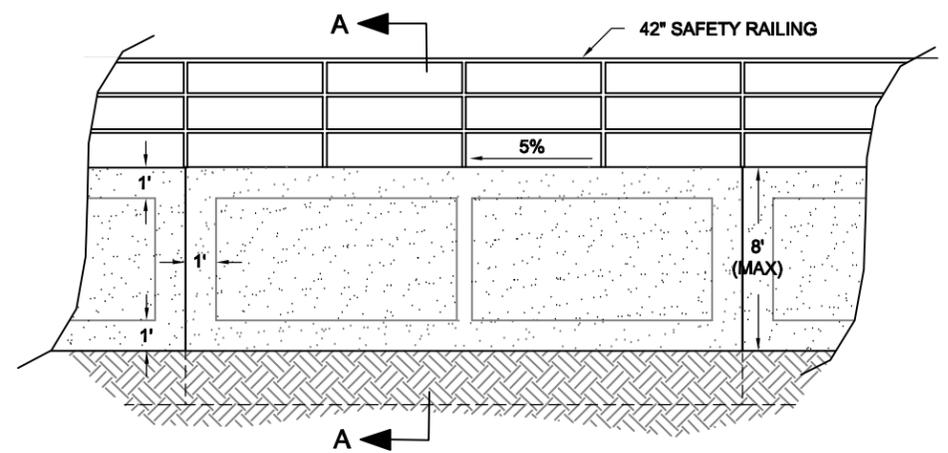
**SHEET**  
**6 OF 7**



**CONCEPTUAL RETAINING WALL PLAN**  
SCALE: 1" = 60'

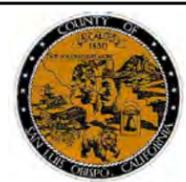


**1 RETAINING WALL SECTION A-A**  
NOT TO SCALE



**WALL ELEVATION**

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



DESIGN	JM/ML
DRAWN	ML/BV
CHECKED	JM
APPRD	JP
DATE	01/19/2012
PROJECT NUMBER	250083

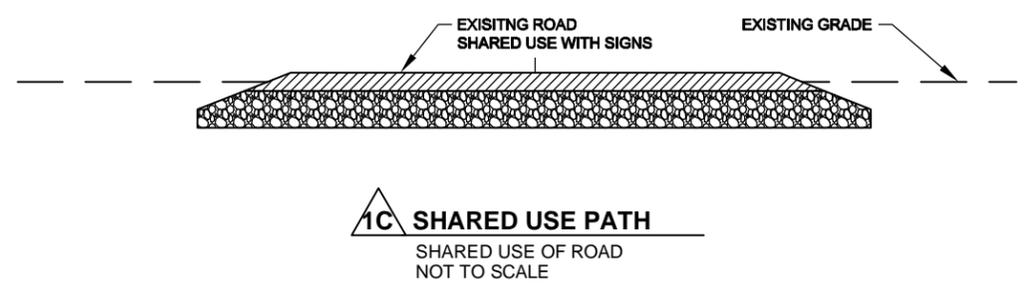
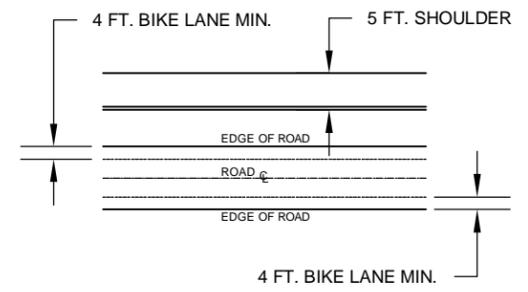
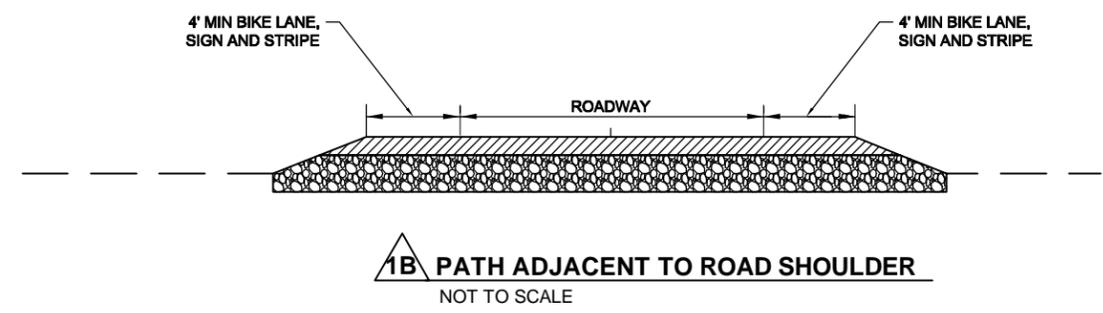
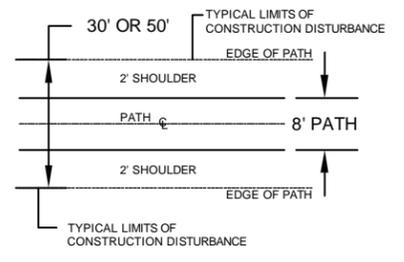
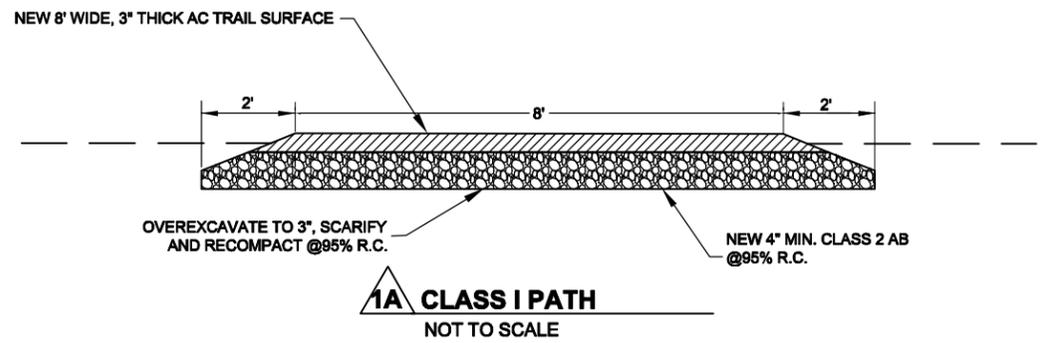
**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources

(510) 236-6114  
FAX (510) 236-2423  
questa@questacorp.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**CONCEPTUAL HWY 101**  
**RETAINING WALL**

**SHEET**  
**7 OF 7**



**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

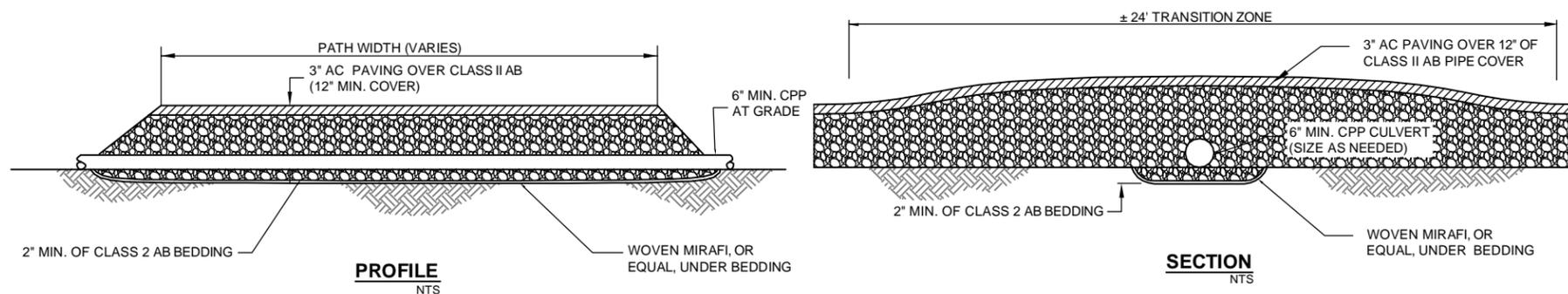


DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083



**DETAILS**

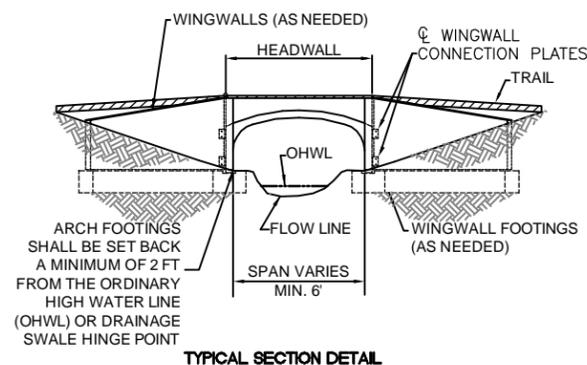
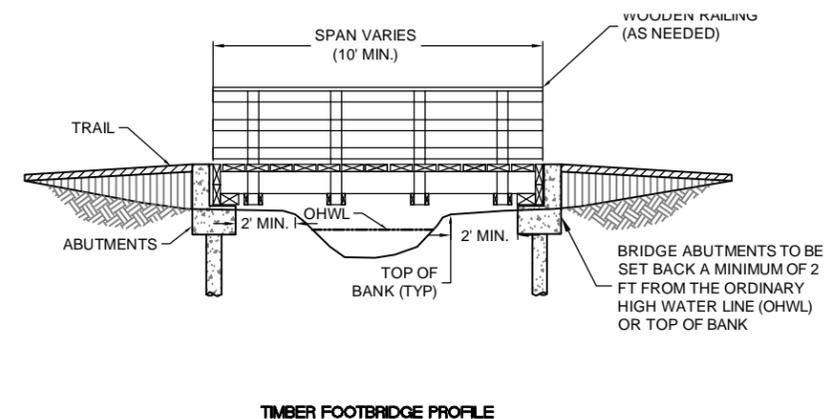
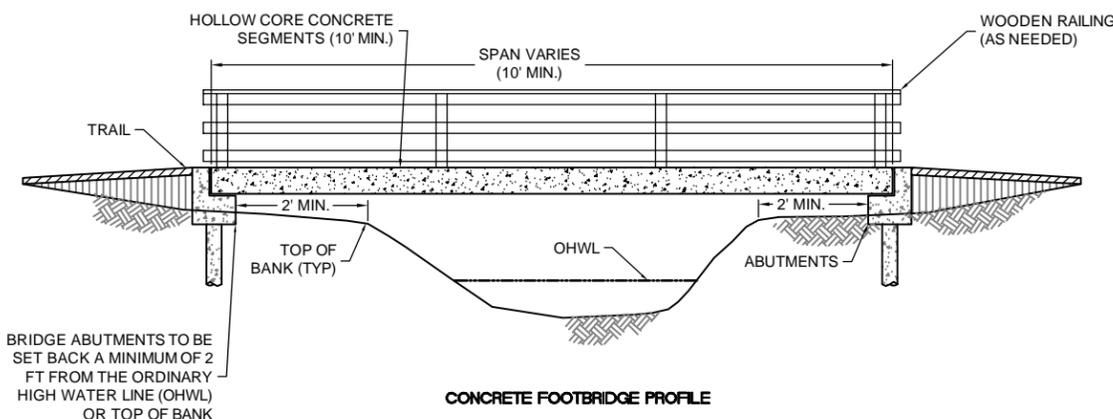
**SHEET**  
**1 OF 7**



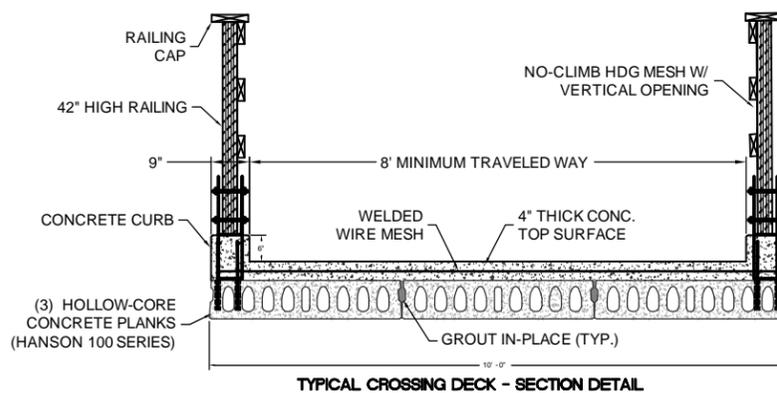
**NOTES:**

1. ENGINEER TO FIELD LOCATE AS NEEDED.
2. CULVERTS NOT TO BE USED IN LOCATIONS MARKED AS WATERS OF THE U.S. NOR U.S.A.C.E. JURISDICTIONAL WETLANDS.

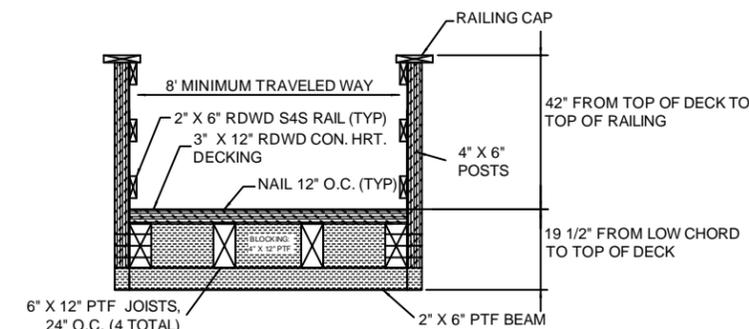
**2A TRAIL DRAINAGE CULVERT**  
NOT TO SCALE



**BOTTOMLESS ARCH CULVERT**  
(TYP. 6' - 10' SPAN)



**HOLLOW CORE CONCRETE FOOTBRIDGE**  
(TYP. 10'-25' SPAN)



**WOODEN BRIDGE SECTION**  
**CLEAR SPAN TIMBER FRAME FOOTBRIDGE**  
(TYP. 10' - 15' SPAN)

**2B BOTTOMLESS CROSSING OPTIONS (FOR SMALL DRAINAGE WAYS)**  
NOT TO SCALE

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



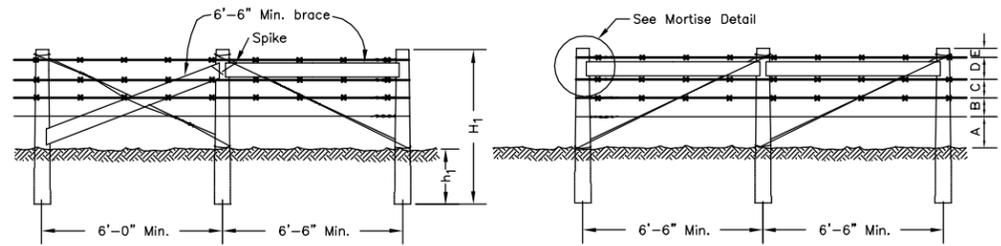
DESIGN	JO
DRAWN	JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA** Engineering Corp.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

**DETAILS**

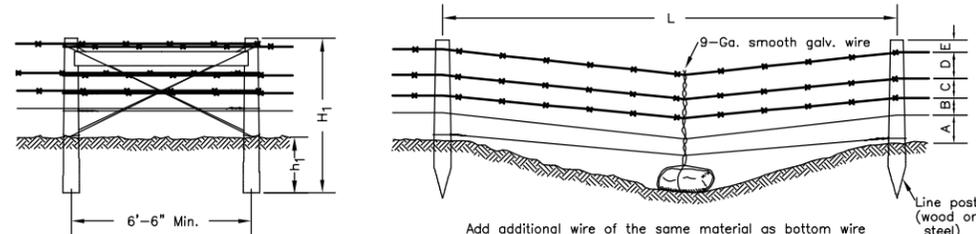
**SHEET**

**2 OF 7**



END PANEL-TYPE I

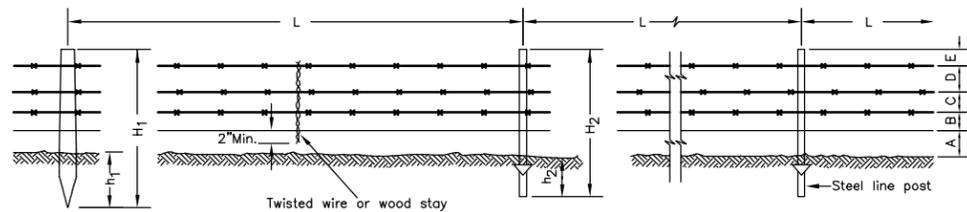
END PANEL-TYPE II



STRESS PANEL

PANEL AT MINOR DEPRESSION

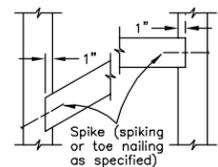
Add additional wire of the same material as bottom wire of fence and a rock deadman (min. weight 50 lbs.) when space between bottom wire and ground exceed 20 inches.



LINE PANELS

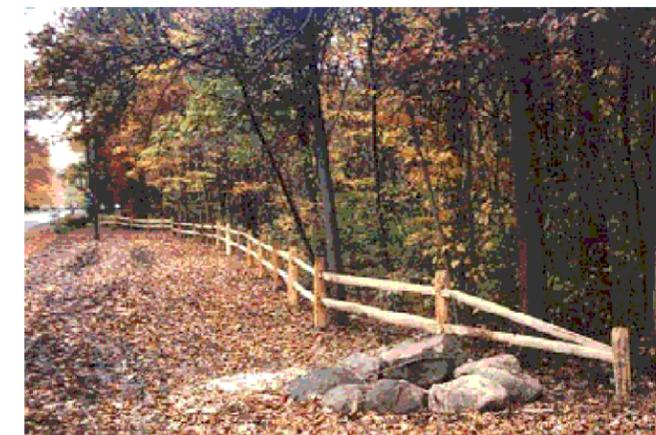
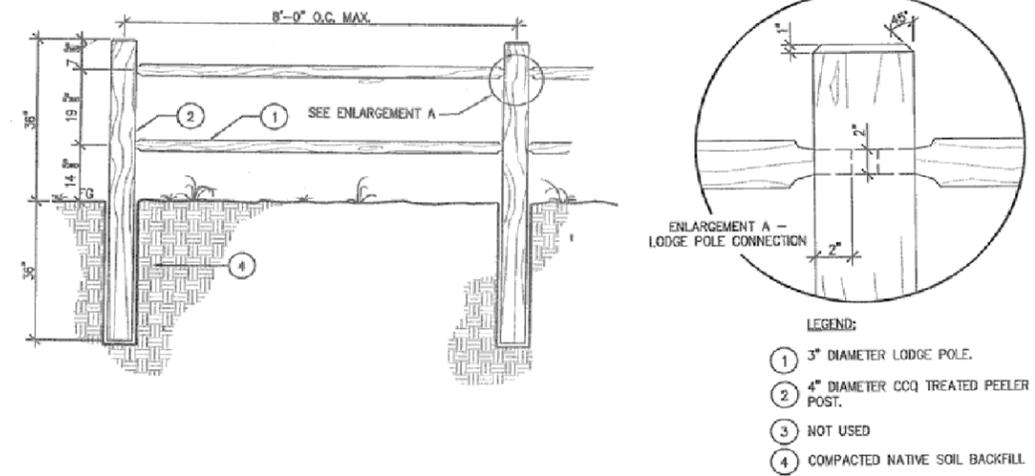
NOTES:

1. USE BARBLESS WIRE (TYP ALL)
2. WIRE TO BE AT 12" SPACING
3. SEE SPECIFICATIONS FOR THE FOLLOWING:
  - A. RATIO OF STEEL TO WOOD LINE POSTS.
  - B. POST SPACING, LENGTH AND DEPTH IN GROUND.
  - C. TYPE OF END PANEL TO BE USED.
  - D. TYPE OF WIRE TO BE USED.
  - E. SPACING BETWEEN WIRES
  - F. NUMBER OF STAYS PER SPAN (L).
4. ALL FENCING TO BE CONSISTENT WITH PROPERTY OWNER NEGOTIATIONS



MORTISE DETAIL

Lodge Pole Fence Detail



Fencing. A multi use trail should be divided with appropriate fencing. Two rail split rail fencing 3 feet high is recommended.

**3 48" T-POST WIRE FENCE**  
NOT TO SCALE

**4 SPLIT RAIL FENCE**  
NOT TO SCALE

BOB JONES PATHWAY  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**<sup>®</sup>  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.<sup>®</sup>



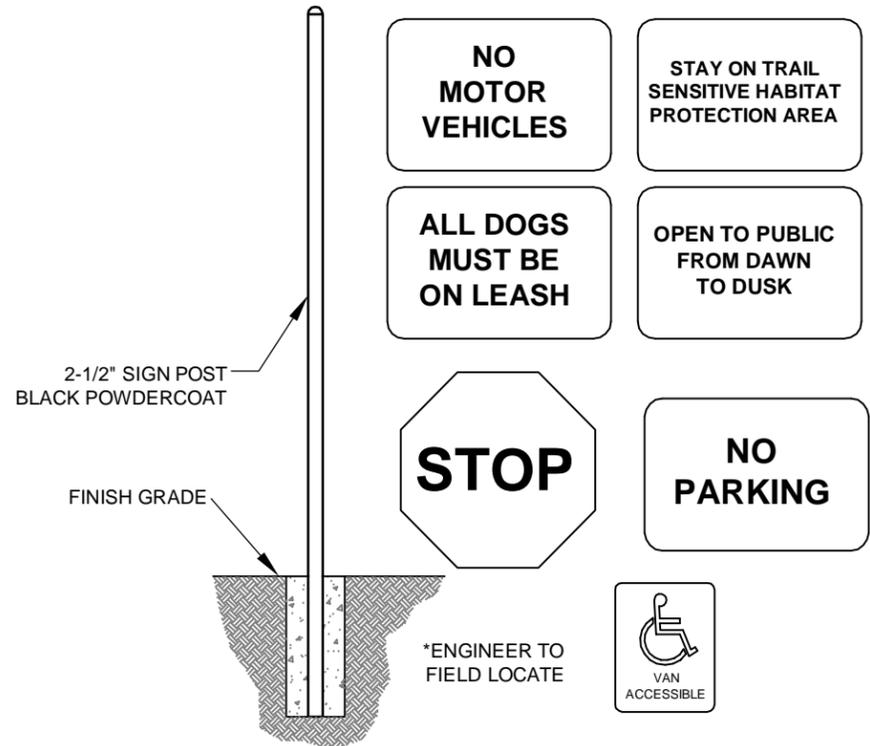
DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

DETAILS

SHEET

3 OF 7



**6 BENCH**  
 NOT TO SCALE  
 PILOT ROCK BENCH  
 MODEL PWRB/G-6CO OR MODEL OWRB/P/B-6TP OR EQUAL  
 INSTALL PER MANUFACTURER'S RECOMMENDATIONS



Signage. Bike Trail signs should have 2 feet minimum lateral clearance from the edge of the path. The bottom of signs should be at least 7 feet above the trail. The signs should demonstrate the separation between bicycle and pedestrian use, if applicable.

**MULTIPLE USE TRAIL GUIDELINES**

**TRAIL COURTESY & SAFETY ARE YOUR RESPONSIBILITY!**

**ALL USERS:**

- OBSERVE RULES & REGULATIONS
- STAY ON DESIGNATED TRAILS
- BE ALERT AND COURTEOUS
- MINIMIZE YOUR IMPACT
- AVOID MUDDY AREAS

- Ride on open trails only
- Leave no trace
- Control your bicycle
- Always yield the trail
- Save more animals
- Please don't
- Control your horse riding
- Avoid cross-country riding
- Yield trail to equestrians
- Allow equestrians and bicyclists to pass
- Don't use switchbacks

**5 TYPICAL TRAIL SIGNS**  
 NOT TO SCALE  
 SOURCE: SAN LUIS OBISPO COUNTY

**BOB JONES PATHWAY**  
 SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**  
 ENVIRONMENTAL CONSULTANTS  
 Sound Science. Creative Solutions.®

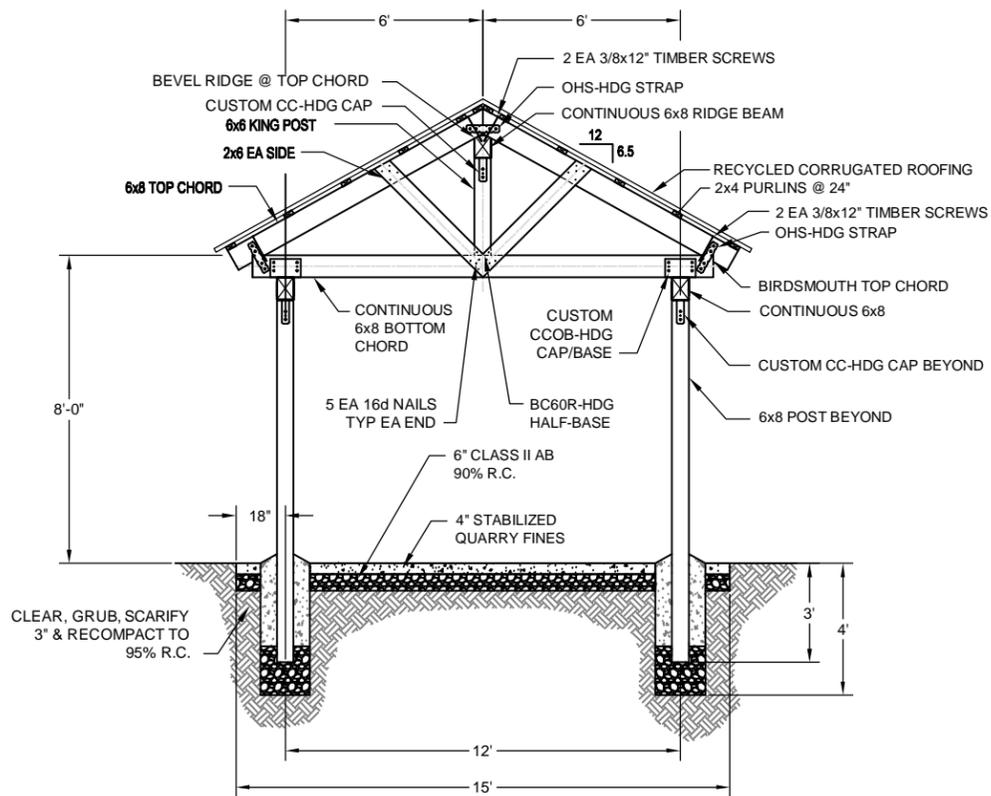
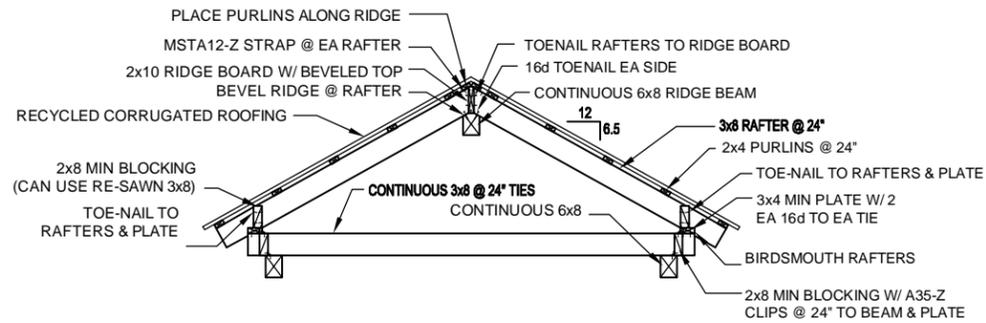


DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

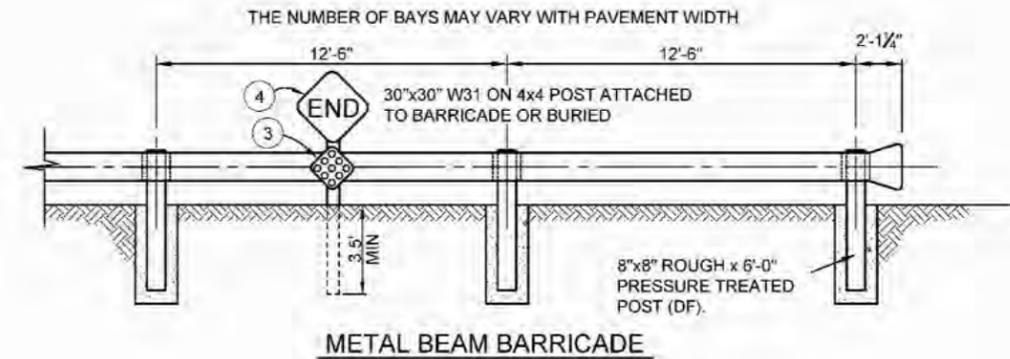
**QUESTA**  
 ENGINEERING CORP.  
 Civil Environmental & Water Resources  
 (510) 236-6114  
 FAX (510) 236-2423  
 questa@questaec.com  
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**DETAILS**

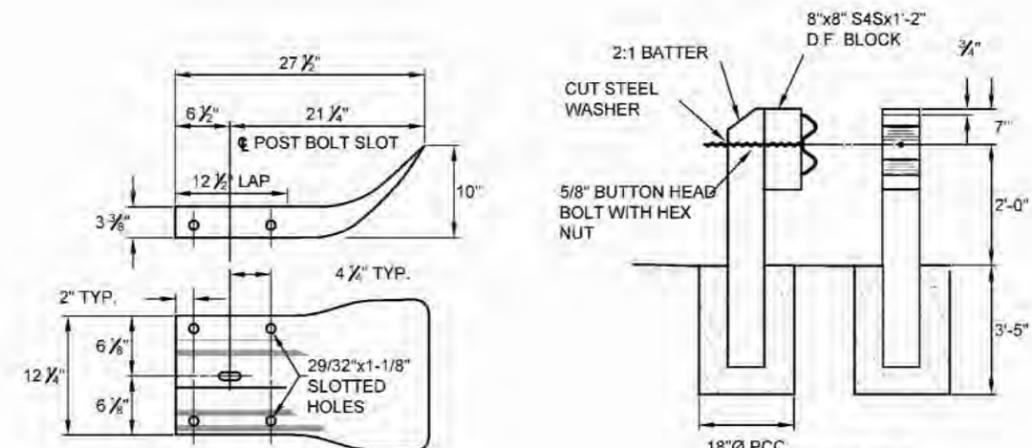
**SHEET**  
**4 OF 7**



**7 TRAILHEAD ENTRY STRUCTURE**  
NOT TO SCALE



**METAL BEAM BARRICADE**

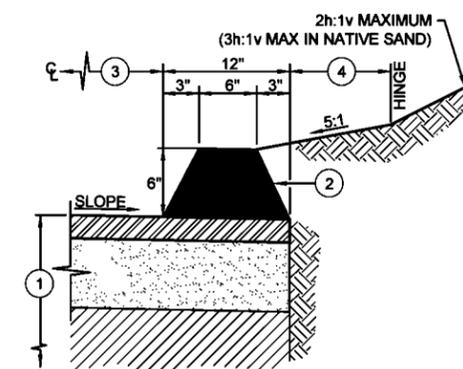


**TERMINAL SECTION**

**POST DETAIL**

SOURCE: SAN LUIS OBISPO COUNTY. ALL TRAFFIC BARRIERS TO BE CONSISTENT WITH CALTRANS REQUIREMENTS

**8 TRAFFIC BARRIER**  
NOT TO SCALE



SOURCE: SAN LUIS OBISPO COUNTY

**9 AC CURB**  
NOT TO SCALE

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**  
ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®



DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

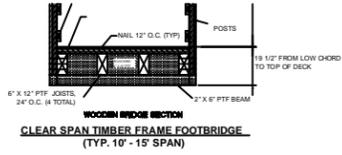
Civil  
Environmental  
& Water Resources

(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

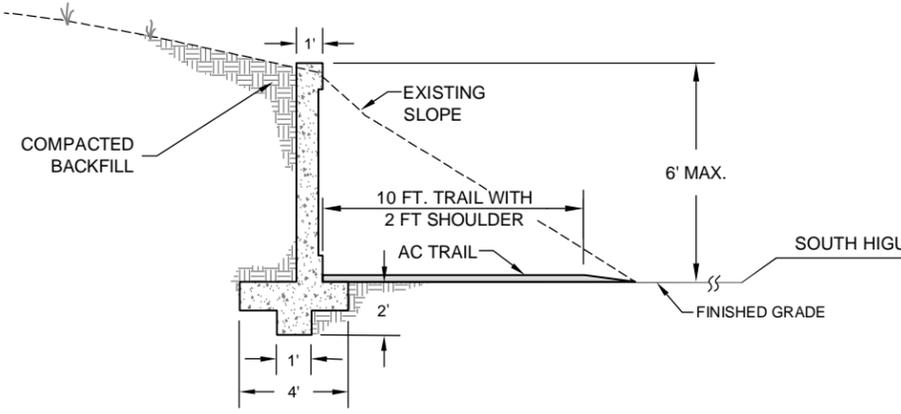
**DETAILS**

**SHEET**

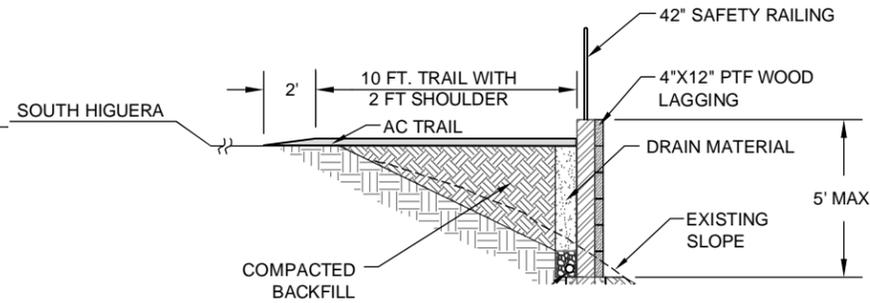
**5 OF 7**



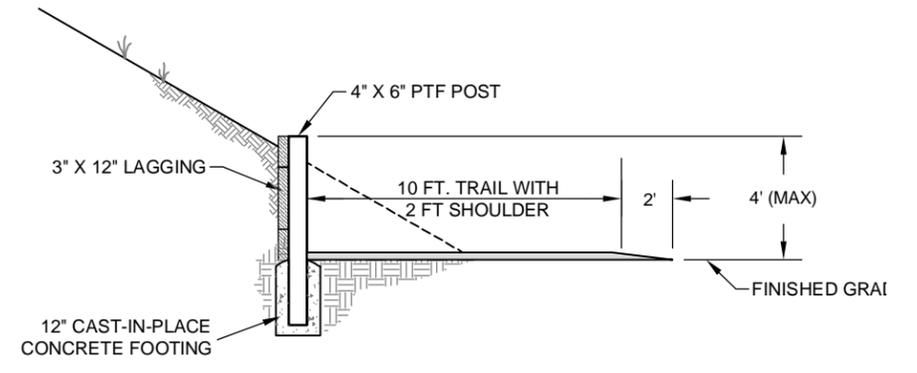
LL DRAINAGEWAYS



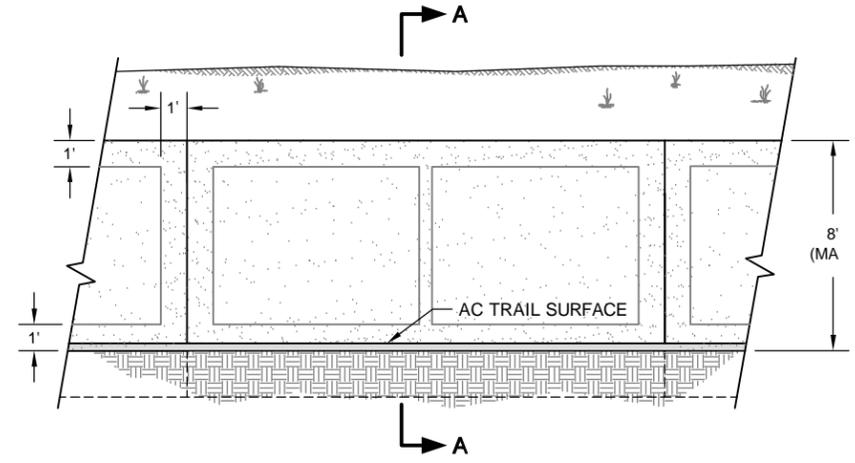
RETAINING WALL SECTION A-A AT SOUTH HIGUERA NEAR OCTAGON BARN



RETAINING WALL SECTION B-B AT SOUTH HIGUERA NEAR CLOVERIDGE LANE

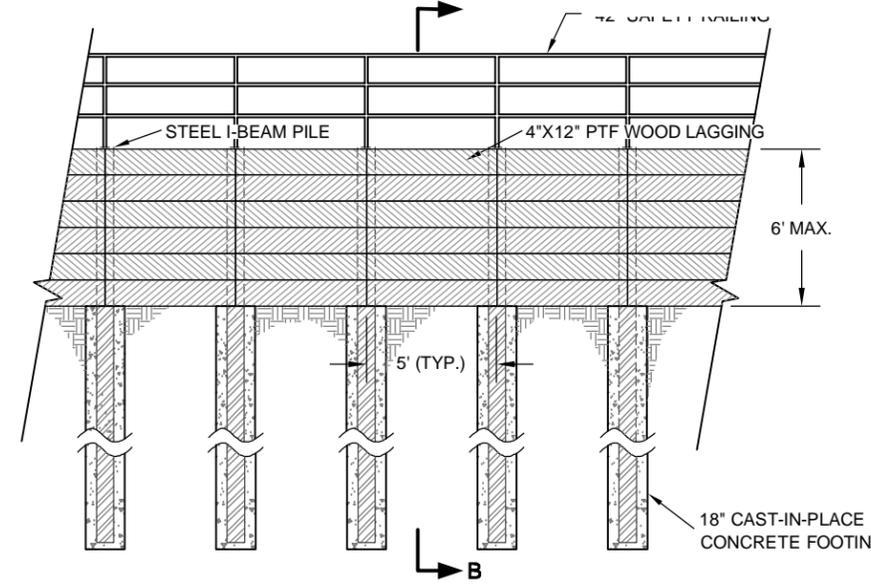


RETAINING WALL SECTION C-C AT THE NARROWS NORTH OF BARON CANYON



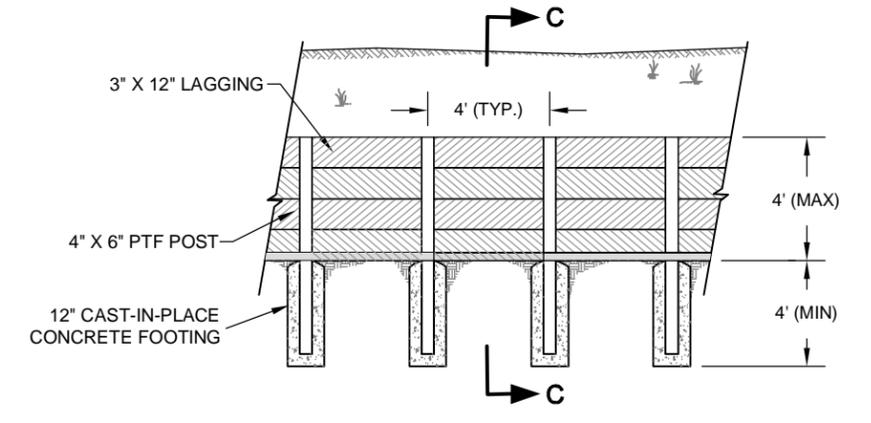
RETAINING WALL ELEVATION

**10 CONCRETE RETAINING WALL**  
NOT TO SCALE



RETAINING WALL ELEVATION

**11 SOLDIER PILE RETAINING WALL**  
NOT TO SCALE



RETAINING WALL ELEVATION

**12 WOOD RETAINING WALL**  
NOT TO SCALE

- ABBREVIATIONS**  
 AB - AGGREGATE BASE ROCK  
 AC - ASPHALT CONCRETE  
 PTF - PRESSURE TREATED FIR  
 PCC - PORTLAND CEMENT CONCRETE  
 TBD - TO BE DETERMINED (ESTIMATED DEPTH PROVIDED)  
 OHW - ORDINARY HIGH WATER

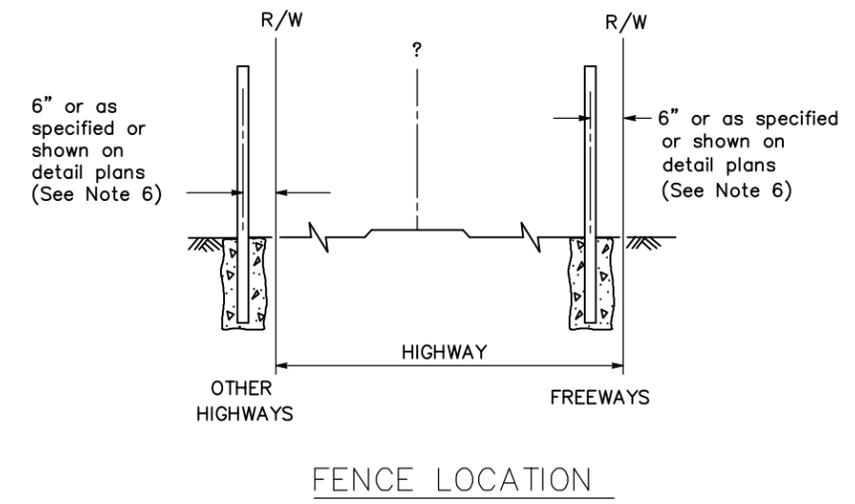
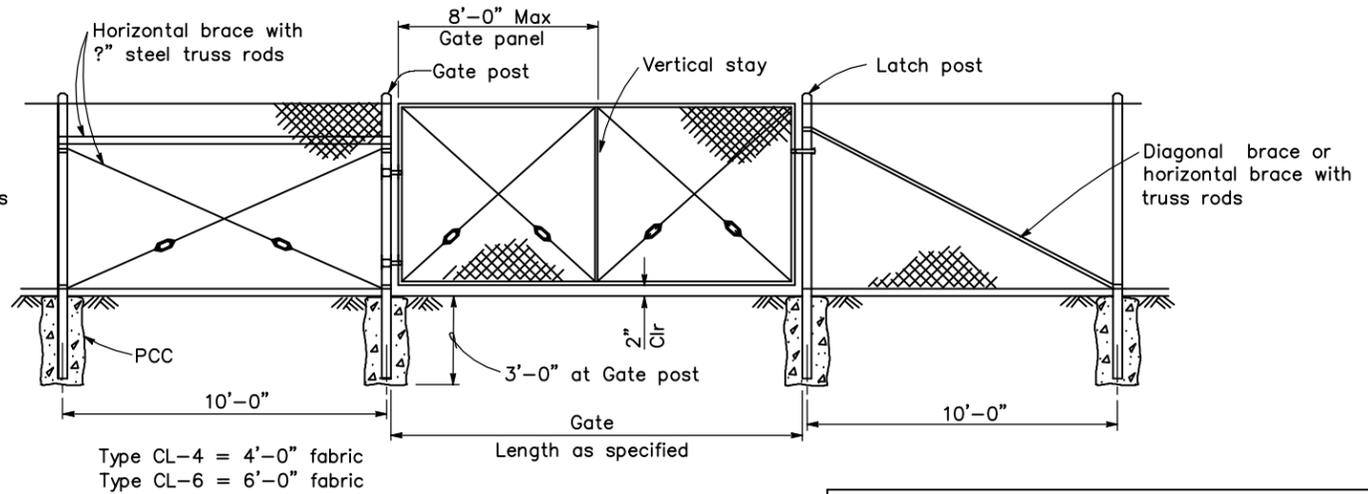
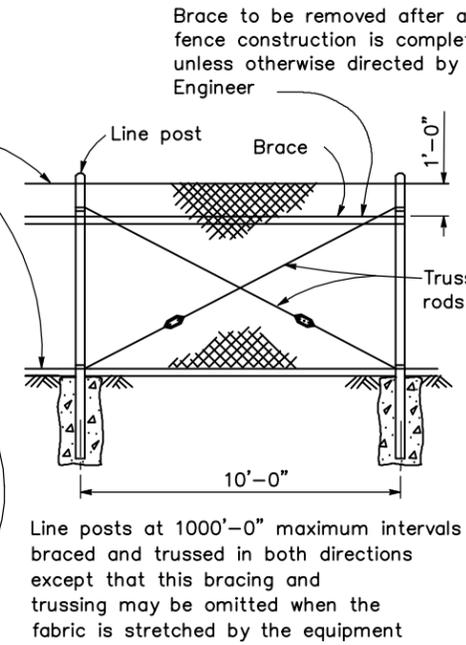
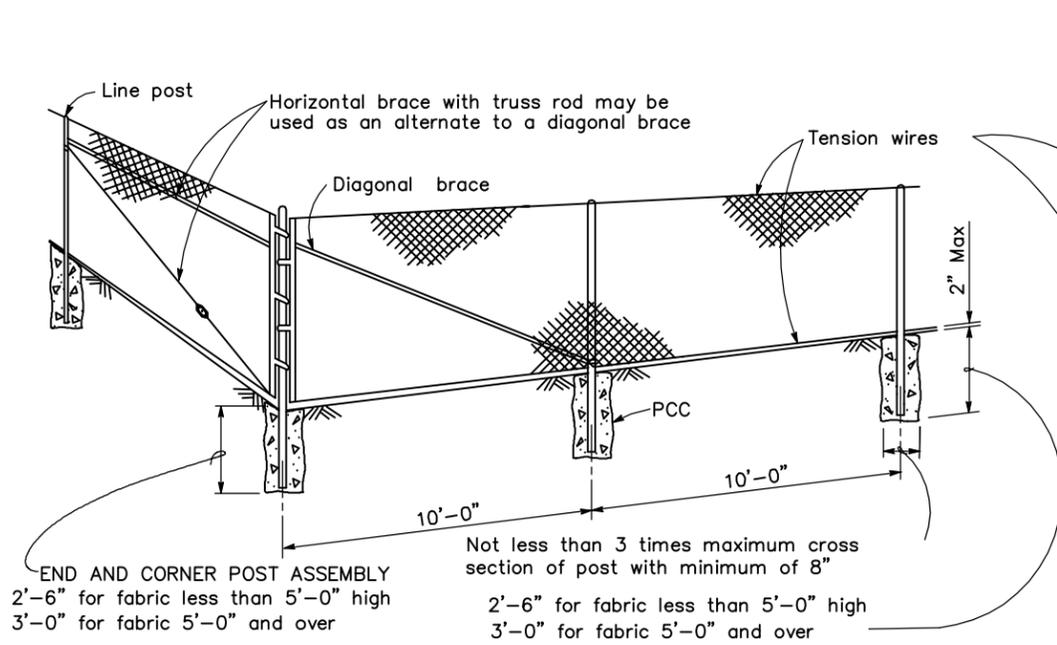
**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD



DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA ENGINEERING CORP.**  
 Civil Environmental & Water Resources  
 (510) 236-6114  
 FAX (510) 236-2423  
 questa@questaec.com  
 P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

**DETAILS**  
SHEET  
6 OF 7



TYPICAL MEMBER DIMENSIONS (See Notes)										
FENCE HEIGHT	LINE POSTS			END, LATCH & CORNER POSTS			BRACES			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	ROLL FORMED	
					□	□			□	□
6' & less	1?"	1?" x 1?"	1?" x 1?"	2"	3?" x 3?"	2" x 1?"	1?"	1?" x 1?"	1?" x 1?"	1?" x 1?"
Over 6'	2"	2?" x 2?"	2" x 1?"	2?"	3?" x 3?"	2?" x 2?"	1?"	1?" x 1?"	1?" x 1?"	1?" x 1?"

- NOTES:
- The above table shows examples of post and brace sections which may comply with the Specifications.
  - Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
  - Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
  - Options exercised shall be uniform on any one project.
  - Dimensions shown are nominal.
  - Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.

GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2?"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
	Over 18'-0" to 24'-0" Max	6"	18.97 LB
Over 6'-0"	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" thru 18'-0"	6"	18.97 LB
	Over 18'-0" to 24'-0" Max	8"	28.55 LB

Above post dimensions and weights are minimums. Larger sizes may be used on approval of the Engineer.

**13 SECURITY FENCE**  
NOT TO SCALE

**BOB JONES PATHWAY**  
SAN LUIS OBISPO TO ONTARIO ROAD

**SWCA**  
ENVIRONMENTAL CONSULTANTS  
Sound Science. Creative Solutions.®



DESIGN	JP
DRAWN	BJV/JAP
CHECKED	JP
APPRD	JP
DATE	01/25/2012
PROJECT NUMBER	250083

**QUESTA**  
ENGINEERING CORP.  
Civil Environmental & Water Resources  
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807  
(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

DETAILS

SHEET  
7 OF 7